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GARDENING
IS AN EMPLOYMENT
FOR WHICH NO MAN IS TOO HIGH
OR TOO LOW.

13
VAUGHAN'S SEED STORE
CHICAGO

1891

Rose Clothilde Souper

146-148 WEST WASHINGTON ST.
88 STATE ST.

Carnation Margaret

COLLECTION NEW MAMMOTH PHLOX.

AUORE BOREALE,	-\$0.25
CROIX DU SUD,	.25
DIPLOMATE,	.25
ECLAIREUR,	.25
LIBERTE,	.25
RICHEPIN,	.25
SNOWFLAKE,	.25
TOTAL,	\$1.75

Entire
COLLECTION
for
\$1.50.

Also one
GOLDEN BEDDER
GRATIS
with every collection

SNOW

LIBERTE.

ECLAIREUR.

DIPLOMATE

VAUGHAN'S
SEED STORE
CHICAGO.

CROIX DU SUD.

NEW
GOLDEN BEDDER.

SHEET FOR **T** **J. C. VAUGHAN, CHICAGO.**
SEEDS, BULBS
ETC.

NO GOODS SENT C. O. D.

1

AMOUNT ENCLOSED.

Very Plain.

Money Order - \$.....

Draft - - - \$.....

Stamps - - - \$.....

Postal Note - \$.....

Cash - - - - \$.....

Date.....1891.

ANT.—Write your name very plainly in black
Post Office, County and State in full every time

AIL.—All Vegetable and Flower Seeds offered in **packets, ounces** and **single pounds**, also all **pints** and **gallons** by mail at prices quoted to all the U. S. Seeds offered in **lots above one pound** and by the peck and upwards at prices quoted to the trade. Remittance can be made by registered letter, P. O. money order, check, stamps and express money order. **Libs** are also **Prepaid**, except where noted otherwise in cases of extra large plants or in large quantities. Tools and like articles are also **Prepaid** unless so noted. Customers who pay their own Freight or Express charges may deduct 8 cents per pound on all orders for which they remit full Prepaid Catalogue rates. For further particulars see "How to Order" on page 3. We take the greatest care to have all seeds pure and reliable we do not give any warranty express or implied. If the purchaser orders seeds on these terms and conditions, they must be returned at once, and the money that has been paid for same will be refunded. Public institutions and Market Gardeners using large quantities of seeds and tools will please write for estimate.

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6172

{ If wanted in bags add 20 cents each.
{ We make no charge for boxes or cartage.

TOTAL, \$

We will consider it a special Favor if you write below the Names of some of your Friends who are likely to use seed

NAMES.

ADDRESSES.

NAMES.

ADDRESSES.



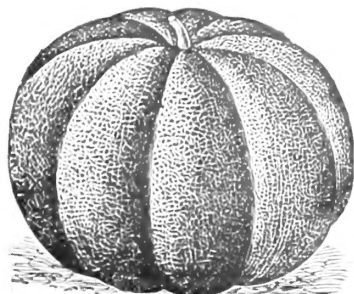
OUR FREE PREMIUMS FOR 1891.



WE SEND THESE FREE WITH EVERY ORDER AMOUNTING TO ONE DOLLAR (without discount) AND UPWARD.

PLANTS WITH ORNAMENTAL FRUIT.

Many of the varieties in this mixture have been grown in Europe for years where they are much admired as they make handsome pot plants and are ornaments for the border, lawn and flower bed. It also contains a number of new varieties but recently introduced; many of them very curious and odd but all ornamental and pretty. These plants will please everybody and many will wonder why these beauties have not been brought into prominence before this.



NEW GIANT CHICAGO MARKET.

NEW POPPY, AMERICAN FLAG.

We secured this new Poppy from Mr. Heffron, the well known Hybridizer, who wrote us as follows:

It was found in an old deserted garden in Iowa by a new occupant, sent to a sister of the lady who found it, and was kept by her until I purchased it a year ago. She has never heard of anyone having a part of it and said her sister had lost hers entirely.

The plant is a remarkably strong grower, well branched, flowers large, very double, white ground, with each petal bordered with scarlet. The terminal point has a wider band than the sides making it extremely showy, distinct from all others.



PLANTS WITH ORNAMENTAL FRUIT.

NEW GIANT CHICAGO MARKET MUSK MELON.

Mr. Carter, a Market Gardener of long experience, at Chicago has for many years sold at some of our best West Side Vegetable Markets and Commission Houses, a very distinct class of Melons, being very large, decidedly ribbed, well netted and with thick green flesh. It is a type of our **Chicago Market**, equal in quality, which we hold to be of the very sweetest, but much larger. He has received three dollars per dozen for his best Melons at wholesale for many years. Mr. Carter kindly presented us with a small amount of his best stock seed and so it we have grown a few pounds and this we shall also give to our customers for '91 (that they may all get in on the **World's Fair** strain for 1893.) We have none for sale, but give it away with these premiums for every dollar of



Seed time and harvest, heat
and hoary frost
shall hold their course."—MILTON.

Now hawthorns blossom, now the daisies
spring,
now leaves the trees, and flow'rs adorn
the ground."—POPE.

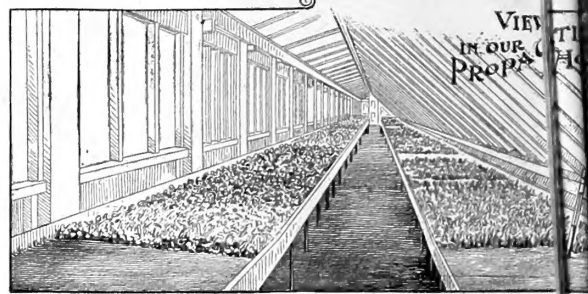
WITH the beginning of each new year we issue our Catalogue as an index of what we can do for our friends horticulturally. In this, for 1891, we trust you may find it true that more than ever we TELL THE WHOLE STORY for the Garden, Lawn and Farm. We have named this book "Gardening Illustrated," nevertheless we are too lately come from the details of making it and from the trials of the crops in the field, the sight of the flowers in the garden and the plants in the greenhouses, to forget how poorly this represents our best vegetables, and how weakly it pictures our flowers and plants. We realize how far the list is from our own ideal or from what we might do, if catalogue making was the sum total of the seed and plant business. At the same time, with pride like that of the crow which thinks her own young the blackest, we hope that our book may find favor for itself among the many candidates now abroad, and that our customers may see something of the desirable vegetables, the sweet flowers or the sturdy plants, through and beyond the plain lines of black and white by which we represent them here. May we hope, kind reader, that your order this year, of any size your purse or inclination may dictate, will be sent to us at Chicago, where we hope to maintain an establishment worthy of this city, the Great West, and of the Exhibition we expect to make in 1893, and to which we shall soon invite you.

Following out our plan of last year, we no longer classify specialties and novelties in prominence at the front of our list, but retaining only the valuable, have placed all specialties and new Seeds or Plants in our regular alphabetical list, that they may stand or fall in a fair examination or trial on their merits with all the well known kinds. This places them in their true light, and must be appreciated by those who have no money to waste on experiments. As we said last season, seed buyers are not so eager to buy a showy novelty on paper as to secure Seeds and Plants which will stand the wear and tear of the season, and make either food or money, or both, for the planter at harvest. They may tell you that the horticultural, as well as the general public, like to be humbugged, but we say what are needed and what we are now offering. OUR MAIN STORE, at 146 and 148 West Washington Street, occupies the three floors, each 40 x 185 feet; in addition we occupy two cellars for potatoes. We have rebuilt and enlarged our storage bins for bulbs, doubling their capacity and convenience. These storage, packing storing duplicate stocks of Bulbs, dormant Roses and to all the large freight depots of the Western railroads. We have 31 different roads. Our business office, where all office records kept, is at the store. Customers who wish to see Mr. Vaughan personally, will find him here. OUR CITY STORE is in the center of the retail business of convenient to all who make their purchases in person to all Seeds and dormant Plants, as full a line of



greenhouse plants as it is possible to keep in healthy condition will be found on hand here, but we urge all customers, when possible, to leave their orders for tender pot-grown plants to be sent direct from greenhouses to the address, or where this is not possible, appoint some exact date for delivery at our State Street Store. We shall endeavor to make decorative plants, PALMS, RUBBERS, PANDANUS and the like, a feature of our display here when the weather permits. Visitors who wish to call at our greenhouses, at Western Springs, can obtain a time-card at either of our Trains leave Union Depot, Canal and Adams Streets, via Chicago, Burlington & Quincy suburban trains, nearly every day.

PLANT DEPARTMENT.—We have added five new greenhouses to our establishment at Western Springs, giving us now 20,000 feet of glass, in addition to hot-beds and cold frames. We have also built in the most substantial manner, with frost-proof stone walls 2½ feet thick, a storehouse 28 x 100 feet. This is for storage of our dormant Roses, Clematis, Small Fruits, Dahlias, etc., that they may be ready for early shipment to the South and California. Over this storage cellar are our Gladiolus and Tuberose bins and racks, and general packing room for mailing and express orders. The greenhouses as now used are devoted to the various plants as follows: One large Palm house, containing Palms, Rubber Trees, Ferns and Decorative foliage plants, two large Rose houses for growing stock plants for propagation, with a section devoted to the novelties which are being tested. One house for propagating young Roses in small pots, one for Lilies, one for large and one for small Carnation plants, one for a general assortment of plants for which orders are packed, and the last for Miscellaneous plants.



OUR CENTRAL LATITUDE gives us a climate and season for varieties suitable to the great central agricultural belt of the Northern States, avoiding the small and inferior Vegetables, Flowers and grains from the extreme North, as well as the late maturing and non-maturing varieties of the South. The hackneyed cry of "Northern Grown" varieties MAY mean something, but oftener nothing really worthy; (for why plant a sixty-day small and inferior kind when you have 100-day varieties in which you can mature a larger and better one?) Those who tell you that the largest Southern products are safely grown anywhere are equally as misleading. "There is always safety in the middle ground." Most of our stock is grown for us by experienced growers, and from seeds which we know to be true and reliable. Some varieties as we import are also from growers of stock we have tried and proven. All are tested under conditions which will prove their germinating power when planted in open ground.



TRUE DESCRIPTIONS.—We have made most careful comparisons through our entire vegetable department both in our own trials and careful observation of many European testing grounds, and our descriptions of varieties here offered will be found as true as we can make them, and what is of great value to the buyer, the merit of one kind are compared to those of other similar sorts, enabling the purchaser to arrive at some intelligent conclusion of their real merits, instead of the conclusion forced on the readers of many catalogues that each variety is the best.

OUR VEGETABLE LIST.—While it is one of the most complete in the country, it has been selected and made up with especial reference to our thousands of MARKET GARDENER customers, who demand not only the handsomest kinds grown, but the earliest, best and most productive as well; and we urge those who have ever given us an order to make a trial this season of some of our specialties, and see if the results do not justify the claims we make. Even though you may be satisfied with seeds bought elsewhere, we believe our special strains of the NEWER VEGETABLES will make it profitable for you to send a trial order here. Our Seeds, Plants, Bulbs and

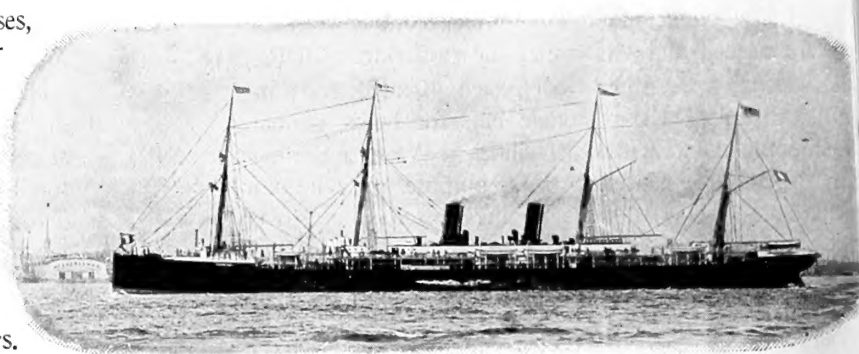
Tools make up the most complete outfit in the United States. Notice our department of PLANTS greatly enlarged.

OUR PRICES will be found as low as good seeds can be grown and sold, and will, we are sure, compare favorably with those of any RELIABLE SEEDSMAN. We endeavor to meet the competition of EQUALLY GOOD Seeds. If you are offered lower rates than these, and will send them to us, stating by whom offered, we will try to meet same. In the size of our seed packets we aim to be more liberal than any other seedsman. New customers are often surprised at the quantity received.

ALL GARDEN TOOLS AND SUPPLIES.—We also supply all demands in our line of work, Grains, Garden Tools and Fertilizers, thus enabling customers to combine their orders and reduce freight or express charges to the lowest limit.

NEW SEEDS OR PLANTS.—Our customers are kind enough to send us many times new or rare specimens for trial. We are very glad to make trials of such, and report results. Customers who have Seeds or Plants they deem worthy of introduction, and which they may be growing in quantity for sale, should always write us several times during the growing season, that we may properly inspect and observe their earliness, productiveness and general merits. For comparison these should be planted at the same time with standard well known kinds, in order that proper test can be made in season. Many really good things are doubtless lost because the seedsman cannot be satisfied of the REAL VALUE of the new specimens by comparison and without which he dare not introduce them.

Our importations of Bulbs, Clematis, Roses, and like flowers and plants, not successfully produced in this country, form an important part of our trade. Of Dutch, French, English and German BULBS alone we used over six carloads, or 120,000 pounds. Of Clematis and Roses, Palms, etc., two carloads, while of American grown Tuberose, Gladiolus and Dahlias of our own or raised for us on contract, we use over four carloads, making a total of more than twelve carloads and over four million bulbs. Nearly all of these are shipped by the fastest ocean steamers, crossing the Atlantic in six or seven days.



OUR ILLUSTRATIONS ON COVER.—Our front cover page represents types of our new Margaret Carnations, which bloom the first year from seed, and are fully described in our Flower Seed List (No. 335). The flowers, although painted from nature, do not do justice to their rich coloring and large size. The CLOTHILDE SOUPERT ROSE shown on the same plate is our introduction of last season, and the fact that we sold over 30,000 plants of it, mostly to very critical wholesale buyers, is an indication of its true merit and superior qualities, and we will only add that there is no Rose which furnishes such an abundance of handsome and double flowers with so little care and attention. It is simply covered with Roses and Buds. Our fourth cover page illustrates the famous VANDERGAW (Vaughan's Market Gardener's) Cabbage, the best all the year round sort; NE PLUS ULTRA RADISH, which combines with quick growth a handsome appearance and most excellent table qualities; the NEW YELLOW PEACH TOMATO, a genuine novelty of our own growing, first introduced this season; NEW EVERBEARING CUCUMBER, which, as its name implies, is a continuous bearer; and last, the great IGNOTUM TOMATO, which carried off the honors in competition with eighty different varieties tested and exhibited in New York last season. We would also call attention to our other colored illustrations of Gladioli, Perennial Phloxes, Sweet Peas, Begonias, Coleus, the Manettia Vine, all of which are painted from nature, and deserve your special attention.

The Seed Crops of 1890 were generally satisfactory, with the exception of BEANS; of these both the wax and green-shouldered varieties have suffered greatly from the prevailing drouth during the growing season, and the beans, after being nearly grown, have suffered from continuous rains in the fall, in fact so much so that the varieties have been almost an entire failure (Earliest Valentine for instance), and this shortage has caused a decided advance in prices. Early varieties of Sweet Corn also suffered quite severely, and the crop is rather short. Onion Seed commands a somewhat higher price this year, owing to the high price and great demand for Onions, which induced a number of seed growers to dispose of them as Onions instead of planting them for seed. This latter fact will also influence the price for Onion Seed next year. There is, however, plenty of last year's Onion Seed in the market, which will be offered at a low price. LOOK OUT FOR IT. The crop of Vine Seeds was a good one and ripened well, but Tomatoes yielded only a short crop; quantity short but quality is good. Seed Potatoes are very scarce; please order early.



BUSINESS RULES—PLEASE READ CAREFULLY.

HOW TO ORDER.—We do not send Seeds, Potatoes or Tools C. O. D. Write your name, Post Office, State, and your Express Office plainly on every order. Give plain shipping directions; where none are given we use our best judgment, but it must be at your expense and risk. (See instructions at bottom of this page and on our order sheets). Use special order sheet for Plants.

REPAID.—We send all Seeds and Plants, except where offered in large quantities, and especially stated that they go at purchaser's expense.

WARRANTY.—We test all Seeds before sending them out, but in case they fail to grow when tested by purchaser, we will replace them or give value in others, but can in no manner warrant the crop or be responsible for other failures. We will not be responsible for failure of Grass Seeds, in any manner.

PERISHABLE STOCK.—Onion Sets, Sweet Potatoes, etc., are sold and shipped only at buyers' risk. For damage arising from delay, or from heating while in transit, we will not be responsible.

GOOD ORDER.—If Seeds are not received, or are received in bad order, we will send again as soon as notified. Claims should be made IMMEDIATELY, giving date of order.

Please do not mutilate or destroy this Catalogue, but if another is wanted, write us for it.

HOW TO PAY.—Send cash with order (as we do not open book accounts for small amounts, and can only send to value of money received), by New York or Chicago Draft, Registered Letter, Money Order, Express Order, or Cash by Express, in any of these ways at our risk. Postage stamps are taken as cash. Registered Letters are generally very safe, and you can send that way from any postoffice and get our receipt by return mail, by which you know it has reached us.

COST OF REMITTING.—Our customers may select additional Seeds Free, with every order of \$1.00 or more, to the amount of the cost of the money order, registered letter or other remittance.

VERY IMPORTANT.—We aim to fill your orders immediately, and you can greatly aid us in making them out on your Order Sheet, as follows:

1. Place the quantity wanted before each article.
2. Use one line for each kind ordered.
3. As nearly as possible make out your list in the same order in which the Seeds are Catalogued, beginning at the front.

Address Telegrams to Warehouse. LETTERS TO LOCK BOX 688. Visitors in the city can be supplied at either of our stores. If you forget our Street and Number, address simply "VAUGHAN'S SEED STORE, CHICAGO;" though it be mailed from any part of the World, it will reach us.

CATALOGUES.—We issue the following Catalogues and Price Lists during the Year.

January 1—Market Gardener's Catalogue.
 " 10—Trade List of Seeds and Tools.
 " 15—General Retail Catalogue—(this one).
 " 15—Florist's Catalogue of Seeds, Plants, Bulbs and Supplies.

June 1—Price List of Vegetable Plants.
 August 15—Florist's Fall Catalogue of Bulbs, etc.
 September 15—Retail Catalogue of Bulbs, etc.
 November 15—Special Price List of Holly, Green, etc.



VAUGHAN'S SEED STORE,

City Store,
88 STATE ST.

Office and Warehouse,
146 and 148 W. WASHINGTON ST.

CHICAGO.

MARKET SCENE, CHICAGO.
MARKET SQUARE.

GENERAL LIST OF

VEGETABLE SEEDS

BOTH STANDARD AND NOVELTIES.

To the high standard of quality maintained by us we attribute the constant increase of our trade by mail, gaining even in poor seasons and doubling in good ones. We are not all doubtful or cheap sources of supply, **paying for our Cauliflower, Cabbage and Melon Seeds OFTEN THREE TIMES** what we might purchase elsewhere. We would venture the risk of new or inexperienced growers. **This list as increased and revised for 1891, we are willing to claim as unexcelled in**

TRUE VALUE TO BUYERS.

All our seeds have been tested in our green-houses at Waukegan Springs to prove their vitality and none are sold that are of doubtful or insufficient germination.

OUR PRICES INCLUDE POSTAGE on Packets, Pounds, Pints and Quarts of VEGETABLE and FLOWER SEEDS on PLANTS and BULBS EXCEPT WHERE NOTED. If the purchaser desires to pay his own Express or Freight charges he may deduct 8 cents per pound and 10 cents per quart for Sweet Corn, and 15 cents per quart on Beans and Peas from the PREPAID list here offered. Where so requested and amount mentioned at bottom of order, we will add extra seeds for such amounts, if not desired. Seeds offered in lots larger than one pound or one quart go at buyer's expense unless marked otherwise.

DISCOUNTS ON PACKETS.	Purchasers remitting \$1.00 may select Vegetable Seeds in Packets amounting to									
	"	"	2.00	"	"	"	"	"	"	"
	"	"	3.00	"	"	"	"	"	"	"
	"	"	4.00	"	"	"	"	"	"	"
	"	"	5.00	"	"	"	"	"	"	"

This discount applies to seeds IN PACKETS ONLY, but does not apply to ounces, pounds, pints or quarts. Our **PREMIUM** (See Order Sheet) goes with each of these, except the \$1.00 order.

ASPARAGUS SEED.

Culture.—In early Spring sow the seed, after soaking it 24 hours in warm water, in drills about 1 foot apart and 1 inch deep. The soil should be very rich and well worked. Later, thin the plants to 3 or 4 inches apart in the rows, and cultivate often thoroughly through the Summer. Transplant the following Spring into permanent beds, deeply trenched and well mixed with decayed manure. Set the plants with roots well spread and crowns in the same direction, to avoid the roots running together, in trenches 1 foot deep, 15 inches apart. 1 foot apart in the trenches, covering with 4 inches of soil. After the plants appear, gradually fill in the manure in the Fall and give a coating of salt every Spring. 1 oz. produces about 500 plants.

CONOVER'S COLOSSAL. The standard variety, of large size, tender and of excellent quality. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 50c.; 10 lbs. (not prepaid), \$3.00.

Moore's Cross-bred.—A new sort of large size, remarkably uniform, and of a fine general appearance. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; 1 lb., \$1.75.

PALMETTO.—It is of very large size, even and regular in growth and appearance. It is a very early sort and immensely productive and of the very best quality. Pkt., 10c.; oz., 20c.; ¼ lb., 60c.; 1 lb., \$2.00.

ARTICHOKE.

Culture.—Sow in April in rich soil and transplant to permanent beds the next Spring, in hills three feet apart each way, with three plants to a hill. A rich, deep loam is required and plenty of moisture. Cover with litter or earth in winter.

Green Globe.—Produces large globular heads; scales green, shading to purple; best for general use. Pkt., 5c.; oz., 30c.

JERUSALEM ARTICHOKE.

Entirely unlike the common Artichoke except in flavor after cooking. They are cultivated for their tubers, which are especially useful for stock feeding, though they have a table use as pickles. Hogs and sheep thrive on them, and they are said to increase the flow of milk in new milch cows. They are enormously productive, yielding 1500 bushels per acre. Cultivate like potatoes, but plant them in rows, 4 feet apart, when grown in strong soils. By mail, per quart, 25c.; by Express, per peck, 50c.; ½ bushel, 85c.; bushel, \$1.50; bbl. (2½ bu.), \$3.25.

BRUSSELS SPROUTS.—ROSEN-KOHL.

A MOST DELICIOUS VEGETABLE.

Culture.—This plant is allied to the Cabbage family, producing small heads from the side of the stalk, which are in perfection for use in autumn after early frosts. Sow in May, transplant in June, one foot apart each way and cultivate like winter Cabbage. It is very strange that these are not cultivated more extensively in this country. Some of our commission men receive large imports from France every Fall.

Improved Dwarf.—A fine strain. Pkt., 5c.; oz., 15c.; ¼ lb., 45c. Try some of it this year.



CONOVER'S COLOSSAL.

ASPARAGUS PLANTS.

(SPARGEL PFLANZEN.)

If they are to be sent by mail, add 30c. per 100 to these.

The earliest and best crop is secured by the use of the Fall setting. They can be set out in Fall or Spring. The Fall setting, the earlier start next Spring. Cultivate as described.

CONOVER'S COLOSSAL.—1 year-old roots, per 100, 50c.; (by mail, 75c.); per 1000, \$4.50; 2 year-old roots, per 100, 85c.; per 1000, \$6.00; 2000, \$10.00; 5000, \$22.50; 3 year-old roots, per 100, \$1.25; by mail, \$1.85.

Giant Early Argenteuil.—This is the Largest and most distinct sort of all the Asparagus sorts. Our stock is imported direct from Paris, France, from a specialist who supplies the largest Paris hotel. We believe this Asparagus in advance of any sort in this country. 1 year old roots, 25 for \$1.50; per 100, \$5.00.

BARR'S MAMMOTH.—This sort is planted extensively by Philadelphia market gardeners, who think very highly of its delicious flavor, earliness and great productive power. The stalks are very large, frequently one inch in diameter with few scales; the stalks retain their thickness completely up to the top of the shoots and have close heads. They are very quick growing and very light in color. The stalks are very tender and succulent, entirely free of woody fibre and make shoots fit for market in one year. 2 year-old roots, per 100, \$1.50; per 500, \$4.00; per 1,000, \$7.50.

CHICORY ASPARAGUS.

When fully known, this Vegetable will prove to be a valuable acquisition to our gardens and Vegetable markets, and garden should be without it. It is said to be a curative for disorders of the stomach. It produces a large quantity of compact short stems, which, when cut are reproduced time after time. The benefit derived from the consumption of these stalks for only a short time, by those having weak digestion, is said to be remarkable. The leaves when boiled make a very wholesome and delicious salad. It can be blanched and rendered tender by simply covering with pots. Pkt., 10c.; 3 for 25c.

BROCCOLI.—SPARGEL KOHL.

Culture.—This plant resembles Cauliflower, but is hard and of less delicate flavor. Sow early in May and transplant in June or early in July to a rich, mellow bed. Cultivate as for Cabbage. It thrives best in moist soil and a cool temperature. One ounce will produce 2,000 plants.

Large White Mammoth.—Heads compact, large and white. Pkt., 10c.; oz., 40c.; ¼ lb., \$1.25.

Walcheren.—One of the best sorts; white and delicate. Pkt., 10c.; oz., 50c.; ¼ lb., \$1.75.

Purple Cape.—The popular sort, with large purplish heads, of a brownish-purple color and good flavor. Pkt., 10c.; oz., 40c.; ¼ lb., \$1.25.



CHALLENGE BLACK WAX.

White Marrow.—Good as string or shell beans. Pkt., 10c.; qt., 40c.

Canadian Wonder.—Very prolific, beautifully shaped pods of from 12 to 14 inches in length, but tender and of a delicious flavor. Pkt., 10c.; qt., 40c.; peck, 7c.; bushel, \$5.50.

Emperor William.—Very long, flat pods. Pkt., 10c.; pint, 25c.; qt., 45c.
IMPROVED TREE BEAN.—A valuable sort for field culture, the most prolific variety known. The beans are roundish, very white, of fine flavor and cook very even and quick. Pkt., 10c.; qt., 35c.; bushel, \$4.00.

WAX POD VARIETIES.

GIANT YOSEMITE WAX.

The pods of this new monster Bean average 10 to 14 inches in length, are nearly solid pulp and absolutely stringless, cooking tender and delicious color they are of a rich golden yellow, the plant is a very vigorous grower, covering the ground with its heavy foliage in such a manner as to shade the earth and keep it moist. The *Yosemite* is enormously productive and if the pods are picked closely, new ones will constantly be produced. We consider it a decided improvement on the Wax Beans and can recommend it to our customers as a very desirable variety. Pkt., 10c.; ½ pint, 50c.; pint, 85c.; quart, \$1.50; by mail, 10c.; by express, pint, 75c.; qt., \$1.25; peck, \$9.00.

RUST PROOF GOLDEN WAX.

It is very early and productive, of excellent quality and entirely free from rust, besides being very crisp and tender and keeps longer than any other after picking which renders it valuable for distant shipping. Pkt., 15c.; qt., 50c.; peck, \$2.

WARDWELL'S EARLY KIDNEY WAX.

The best Bean for the Market Gardener.

This new sort is one of the earliest hardest and most productive of Wax Beans. It is nearly a week earlier than the Golden Wax and yields one-third more, but the most valuable point in its flavor is that it is almost entirely free of rust and spots. The pods are long and showy, very tender, stringless and of excellent quality, and assume a rich golden color at an early stage of their growth. Pkt., 10c.; pint, 25c.; qt., 45c.; peck, \$1.75; bushel, \$6.00.

GOLDEN EYE WAX.—A sort much superior to the Golden Wax, being more productive and earlier. Pkt., 10c.; pint, 25c.; qt., 45c.; peck, \$2.25.

Dwarf Black Wax.—Pkt., 10c.; qt., 45c.; peck, \$1.50; bushel, \$5.75.

Dwarf Golden Wax.—Pods yellow, brittle; entirely stringless, a good snap sort and very prolific. Pkt., 10c.; qt., 40c.; peck, \$1.50; bushel, \$5.50.

Dwarf Mount d'Or.—Tender and good flavored. Pkt., 10c.; quart, 40c.

Ivory Pod Wax.—Pods delicate, waxy white, half transparent; will mature for the table in less than 40 days. Pkt., 10c.; quart, 45c.; peck, \$1.75.

Crystal White Wax.—Transparent pods; stringless, good flavor; seed white. Pkt., 10c.; quart, 45c.; peck, \$1.75.

Perfection Wax.—Pods large and tender. Pkt., 10c.; pint, 25c.; qt., 40c.

Flageolet Wax.—As early as Golden or Black Wax; the pods are of a beautiful golden yellow, much larger than those of the Golden Wax and of a better quality. It is a vigorous grower and one of the heaviest yielders and nearly always exempt from rust. Pkt., 10c.; quart, 45c.; peck, \$1.75.

ENGLISH BEANS.

Culture.—Plant early in Spring in drills 2 feet apart and 4 to 6 inches in the rows; cover about 2 inches. A strong soil suits them best. Pinch off the tops as soon as the lower pods set. They are eaten shelled.

Broad Windsor.—Best for general cultivation. Pkt., 10c.; pint, 30c.; qt., 50c.

BEANS

Owing to the excessive drought last summer and continuous rain in the fall, the Bean crop is very short this year, some kinds being almost a total failure while the sample is not quite so bright as in favorable seasons.

OUR PRICES for Packets, Pints and Quarts include prepayment by mail. If to go at your expense (by freight or express), deduct 8c. per pint or 15c. per quart from prices quoted. Prices for larger quantities do not include transportation charges.

BUSH BEANS.

Culture.—Plant as soon as danger from frost is past, in light, warm soil, in drills about two inches deep and two feet apart, 3 inches apart in the drill, or in hills 3 to 4 feet apart. Avoid cultivating when wet with rain or dew, as this will injure the crop, but hoe often when dry. Plant every two weeks for succession. 1 quart will plant about 200 hills, or a drill of 100 ft.

GREEN POD VARIETIES.

Early Mohawk.—Very hardy, early and productive; an old reliable sort. Pkt., 10c.; qt., 35c.; peck, \$1.00; bush., \$3.75.

Long Yellow Six Weeks.—Very early and productive, and a good shell bean. Pkt., 10c.; qt., 35c.; peck, \$1.00; bushel, \$3.75.

China Red Eye.—A good early string bean, and one of the best shelled. Pkt., 10c.; qt., 35c.; peck, \$1.10; bush., \$3.90.

Early Valentine.—Early and tender, productive and of excellent flavor; Pkt., 10c.; qt., 40c.; peck, \$1.40; bushel, \$5.30.

IMPROVED EARLIEST VALENTINE.—(Crop very short.) This variety is at least 10 days earlier than the Early Valentine and usually ready to pick in 35 days after planting. The pods are very thick and fleshy of finest quality and unequalled in uniformity of ripening, which latter fact, combined with its earliness make it one of the most profitable sorts for the gardener. Pkt., 10c.; qt., 45c.; peck, \$1.50; bu., \$5.75.

Refugee.—Abundant bearer, one of the very best for picking; Pkt., 10c.; qt., 35c.; peck, \$1.00; bu., \$3.75.

LOW'S CHAMPION.—An excellent shell and string bean; pods large, long and very abundant. Pkt., 10c.; qt., 40c.

White Kidney.—One of the best for shelling either dry or green. Pkt., 10c.; qt., 40c.; peck, \$1.40; bushel, \$5.25.

BOSTON FAVORITE or GODDARD.—Very tender and succulent, it is very productive and much esteemed as a shell bean, being of large size and possessing a delicious flavor. Pkt., 10c.; qt., 40c.; peck, \$1.40; bushel, \$5.25.

BLUE-PODDED BUTTER.—A very showy bush, leaves and stem blackish purple with rich deep blue pods, about six inches long. It bears very freely and pods when cooked are of a rich green, very tender, stringless and of a delicious flavor. Pkt., 10c.; pint, 30c.

BOSTON PEA BEAN.—Very early, hardy and prolific, beans small, round and handsome. The plant never suffers from rust. A very desirable variety for farmers to grow for market. Pkt., 10c.; qt., 40c.; peck, \$1.35; bush., \$5.00.

POLE BEANS.

Pole Beans, being tender, ought not to be planted until the ground is dry and warm. A well-manured, sandy loam suits them the best. Plant in hills, 4 feet apart, 6 to 8 beans to the hill, eyes downward, afterwards thin to 3 plants in a hill. Set poles 8 to 10 feet long before planting seed.

"KING OF THE GARDEN" LIMA.

It is a vigorous grower, requiring but two vines to each pole. When not closely planted they set their beans early, at the bottom of the pole, producing a continuous bloom and fruitage to the extreme end of the season. The pods are of enormous size, many specimens measuring from 5 to 8 inches, and producing up to 7 beans to the pod, all perfectly formed and of superior quality. Ours is the genuine stock. Pkt., 10c.; qt., 60c.; peck, \$2.25; bushel, \$8.00.

Extra Early Jersey Lima.—About 2 weeks earlier than Large Lima which is of great advantage to gardeners. Pkt., 10c.; qt., 50c.; peck, \$2.00; bu., \$7.50.

Large Lima Selected Seed.—An extra selection of seed stock; large fine beans. Pkt., 10c.; qt., 50c.; peck, \$2.00; bushel, \$7.00.

LARGE LIMA.—Pkt., 10c.; qt., 45c.; peck, \$1.75; bushel, \$6.60.

Dreer's Improved Lima.—Earlier and more prolific than Large Lima; beans smaller, but of extra quality. Pkt., 10c.; qt., 50c.; peck, \$2.00; bu., \$7.50.

WHITE-SEEDED CUT-SHORT CORN-FIELD.—This sort produces broad flat beans, cream-colored with yellow and brown dashes; it is used in the South for planting to Corn, hence its name. The ripe pods are green, long, flat, curved and undulating; very luscious. Pkt., 10c.; qt., 50c.; peck, \$1.75.

Early Golden Cluster Wax.—A desirable sort, only 7 days later than the Dwarf Golden Wax. The pods are very tender, 6 to 8 inches long, of large size, and are borne profusely in large clusters of 3 to 6, and are of a beautiful golden yellow color, which they retain a long time after being picked. It snaps easily, is stringless, cooks tender, delicious flavor. Pkt., 10c.; pint, 35c.; qt., 60c.

LAZY WIFE.—Pods are very broad, thick, fleshy and entirely stringless, they furthermore retain their excellent qualities until almost ripe, but above all it is immensely productive. Pkt., 10c.; pint, 35c.; qt., 55c.

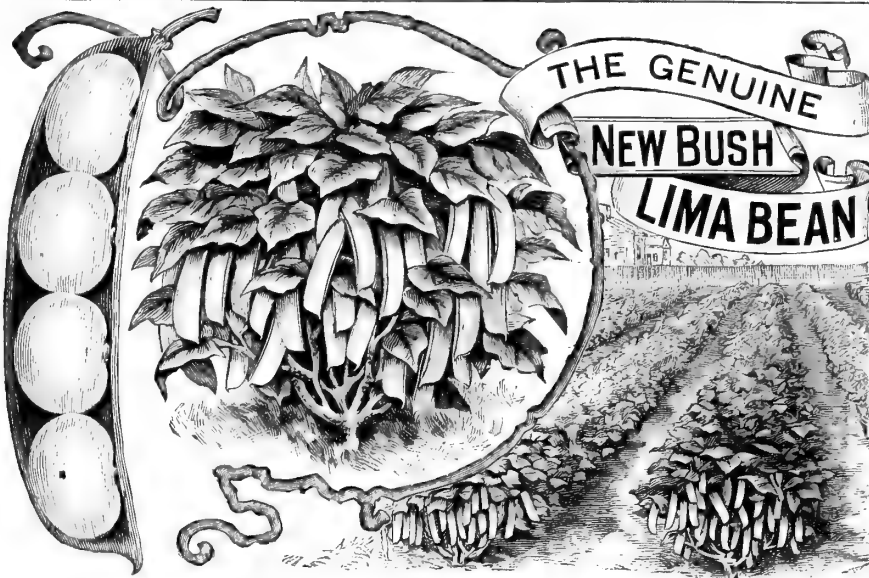
Dutch Case-Knife.—Good corn-hill bean; one of the earliest Pole Beans; pods long and flat, beans white, used green and dry. Pkt., 10c.; qt., 45c.; peck, \$1.50.

Horticultural Cranberry.—An old popular variety, excellent as a snap or shelled bean; speckled. Pkt., 10c.; quart, 50c.; peck, \$1.75.

Giant Red Wax.—Long, yellow pods, thick and fleshy. Pkt., 10c.; qt., 50c.
Creaseback Pole Bean.—Early, large, long and stringless pods; splendid quality, a great southern favorite. Pkt., 10c.; pint, 35c.; qt., 60c.

SCARLET RUNNER.—A favorite both as a snap bean and for its flowers, seeds broad and kidney-shaped. Pkt., 10c.; quart, 50c.

White Runner.—Similar to above except in color. Pkt., 10c.; qt., 50c.



CHALLENGE DWARF BLACK WAX.

The Earliest Wax Bean in Cultivation.

This new and distinct sort is fully **one week earlier than any other Wax Bean**, while its vigor and productiveness leave nothing to be desired. The pods are large and of good color and ripen remarkably uniformly and well together. There is none better than this for **first early** crop. Pkt., 10c.; pint, 25c.; qt., 45c.; by mail, postpaid; at buyer's expense, by freight or express, pint, 15c.; qt., 30c.; peck, \$2.00; bush., \$7.50.

HENDERSON'S NEW BUSH LIMA BEAN

WHILE it cannot be said that this new Bean equals in size and quality the Improved Large Pole Lima, yet for convenience and practical use in the home garden it is a really good thing and deserves a permanent place among the Garden Beans in our catalogue. It grows without the aid of poles, in compact bush form about 18 inches high, is very productive and at least two weeks earlier than any of the Pole Limas. The Beans are about the size of Sieva Lima and of good quality. Our stock has been grown for us from Henderson's seed which we supplied. Pkt., 10c.; 3 for 25c.; ½ pt., 35c.; pt., 60c.; qt., \$1.00. by mail, postpaid; by express, at buyers expense, pint, 50c.; qt., 85c.; ½ peck, \$3.00; peck, \$5.50.

BURPEE'S SADDLE-BACK WAX BEAN.

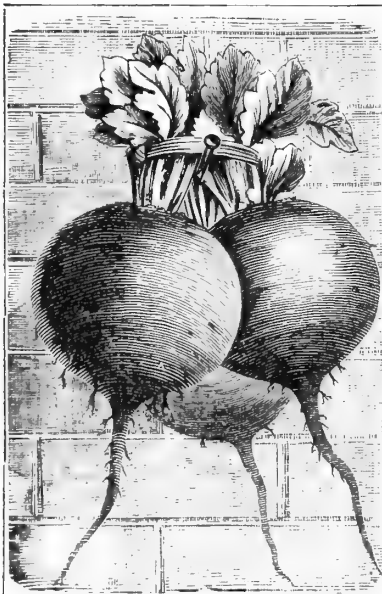
THIS is a cross between the **Yosemite Mammoth**, or **Monster Wax** and the **Black Eyed Wax**, and is described by the introducers as follows:—

"The pod is large, long, straight, round, very full of meal and is absolutely stringless. The growth of the bush is vigorous, the foliage being sufficiently profuse to cover the ground in such a manner as to shade it and keep it moist, hence this variety is not likely to suffer severely, as do many other sorts, in a dry season. It is a very profuse bearer. The plants in ordinary field culture usually bearing from 25 to 40 pods each. When the pods are broken between the Beans there is no open space,—the pods being completely filled with meat, and can be sliced like a cucumber without showing any hollow spaces."

Our seed is direct from the introducers and we furnish it at their prices which are as follows: Pkt., 15c.; 2 for 25c.; pint, 50c.; qt., 90c.; by mail, postpaid; by freight, at buyer's expense, per pint, 40c.; qt., 75c.; 4 qts., \$2.75; peck, \$5.00.

EXTRA EARLY REFUGEE.

One of the best early sorts. It has all the excellent qualities of the well known Refugee with the additional advantage of being ready for market **at least ten days earlier**. It is an immense yielder and always sure to produce a crop. Pkt., 10c.; pint, 25c.; qt., 45c.; by mail, prepaid; by express or freight at buyer's expense, qt., 30c.; peck, \$2.00; bush., \$7.50.



ECLIPSE.

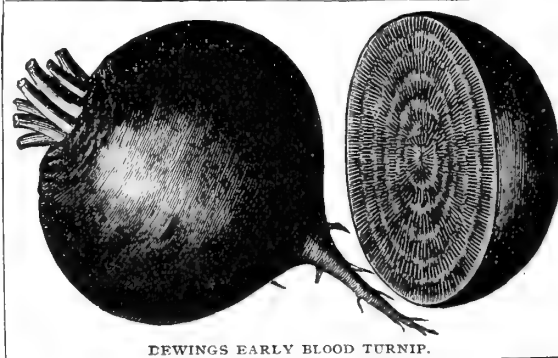
EDMAND'S EARLY BLOOD TURNIP.

One of the best Beets grown, being a very careful selection. The roots are of good form, round with only one single small tap root, the flesh is of a deep blood red color, and very sweet and tender. They can be planted very closely as they do not grow large and coarse and have a very small top. It is one of the best for the Market Gardener and table use. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 70c.

ECLIPSE. A very early, smooth, globe-shaped Beet, with small top and thin root; its skin an intense deep red, its flesh of very fine texture, in earliness and quality it is excelled by none. Many of our Market Gardeners prefer it even to the old standard variety, the Egyptian. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 70c.

DEWING'S EARLY BLOOD TURNIP. A week earlier than Blood Turnip; shape good, skin smooth, good for summer and winter use. Our stock is grown from specially selected roots. Excellent for the table. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

New Lentz. This variety originated with one of the largest market gardeners in Philadelphia. It is as early as the Egyptian, but larger, of fine dark red color, a very small top, tender and sweet. It is very productive and a good keeper. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.



DEWINGS EARLY BLOOD TURNIP.

• BEET. •

ROTHE RUEBEN.

Culture. Select a rich, mellow soil, sow in Spring as early as the ground can be worked, in drills 1 foot apart and 1 inch deep; thin to 8 inches apart; for winter use sow in June. Cultivate often. One ounce of seed will sow 100 feet, 6 to 8 pounds are required to seed an acre.

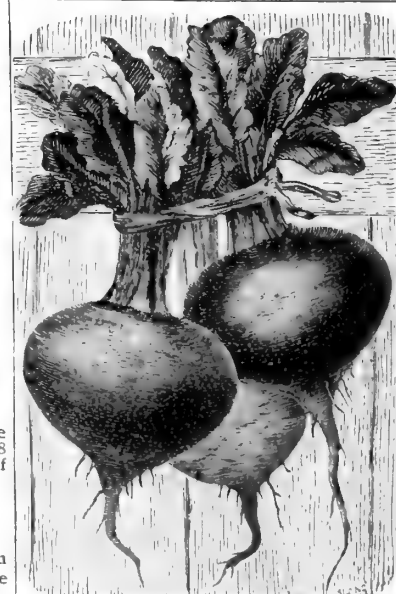
The prices include prepayment by mail.

IMPROVED EARLY EGYPTIAN.

The finest early market sort, color very deep red; tender and sweet; in form like the Flat Dutch Turnip. Our seed is a special selection of the darkest, earliest and most perfect roots with small tops. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.



IMPROVED EARLY EGYPTIAN.



EDMAND'S BLOOD TURNIP.

NEW HALF LONG BLOOD.

This is an entirely new and distinct variety—by far the best for winter use. The roots are only half as long as the Long Blood, but weigh as much on account of their thickness. They are always smooth and handsome, and their rich, dark red flesh is very sweet, crisp and tender, never becoming woody, even in the exposed portions. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 75c.

Early Blood Turnip. For summer and winter use. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

Early Flat Red Bassano. Medium early but very productive. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Long Smooth Dark Blood. A well-known winter sort. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Round Yellow. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.

Bastian's Blood Turnip. Very early, extremely quick grower, a great favorite in Eastern markets owing to its fine flavor. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

Pyriform Strassburg. Flesh fine and sweet very deep red. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

SWISS CHARD, Silver or Sea Kale Beet. Cultivated for its leaves only, being used as Spinach cooked like Asparagus. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

MANGEL WURZELS AND SUGAR BEETS.

MANGEL WURZEL.

(RUNKEL RUEBEN.)

THE importance and value of this crop to all **stock farmers** cannot be over-estimated, and is fully realized and acted on by very few farmers. When the fact is considered **that 50 tons of Mangel wurzels may be grown on a single acre**, thus providing fresh and healthful stock food for the winter at so small an outlay, the wonder is that every farmer does not profit by it. **We carry a very large stock of Mangel seed**, and can sell the largest buyers. Write for estimates on larger quantities.

Culture.—Sow in April and May in thoroughly ploughed, well manured soil, in drills 2 inches deep and about 18 inches apart. Thin out to 12 inches, and keep the weeds down by frequent hoeing and cultivating. 4 to 6 pounds are required per acre.

VAUGHAN'S MAMMOTH LONG RED.

This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing from 20 to 30 pounds. It is the best long red Mangel and very valuable for stock feeding. They grow well over ground and are easily pulled. Our strain is an extra selection of the largest and thickest Mangels representing the true type. (See Figure 2.) Per oz., 5c; ¼ lb., 15c; 1 lb., 40c; 10 lbs., by express, \$3.00.

GOLDEN TANKARD.

The best Yellow Mangel in Cultivation.

A distinct and valuable yellow-fleshed variety, which contains a larger percentage of sugar and more nutritive matter than any of the red skinned sorts. It has already taken the lead of other varieties in England and is more relished by milch cows and sheep than any other. In shape it is almost cylindrical, narrowing abruptly at both ends. (See Figure 1.) Is very easily pulled, exceedingly hardy, and maturing earlier than other large sorts. Per oz., 5c., ¼ lb., 15c.; 1 lb., 45c.; 10 lbs. (by express) \$3.00.

NEW ESCHENDORF MANGEL.—A cross between the French Imperial Sugar—the sweetest of all—and the German "Wanzleben," a sort celebrated as a heavy cropper. In form it resembles the Tankard but is rather thicker at the lower end than at the top. Price, Eschendorf Yellow, oz., 5c.; ¼ lb., 20c.; 1 lb., 60c.; Eschendorf Red, oz., 5c., ¼ lb., 20c., 1 lb., 70c.

NEW GIANT YELLOW INTERMEDIATE MANGEL.—A decided improvement on the Yellow Intermediate Mangel, being considerably larger, more than half above the ground and of a more grayish or rather of russet yellow color. Flesh white, firm and sweet, much liked by cattle. (See Figure 1.) Oz., 10c.; ¼ lb., 25c.; 1 lb., 80c.

CHAMPION YELLOW GLOBE.—Very nutritious and productive; good keeper. Oz., 5c.; ¼ lb., 15c.; 1 lb., 35c.; 10 lbs., by express, \$2.50.

Red Globe.—Differs from above in color; adapted to shallow soils. Oz., 5c.; ¼ lb., 15c.; 1 lb., 40c.; 10 lbs., \$2.50.

Long Negro Mangel.—Oz., 5c., ¼ lb., 15c.; 1 lb., 40c.

GERMANTOWN, KY., May 24, '90. You have always given such satisfaction and filled orders so promptly that it is a pleasure for me to send you an order.
EMMA COLEMAN.

were received in good condition and satisfactory in every respect. Accept thanks.
MRS. AUGUSTA KRAUSSE.

Pounds Include Postage.

were received in good condition and satisfactory in every respect. Accept thanks.
MRS. AUGUSTA KRAUSSE.

LARGE YELLOW OBERNDORF OR BEEHIVE MANGEL.—The roots grow to a large size, are rounded on top and flattened underneath, almost entirely overground; a very profitable kind on shallow soils and easy to gather. Oz. 5c., ¼ lb., 20c., 1 lb., 50c.

NORBITON GIANT.—Large; small top; one of the best long red varieties. (See Figure 2.) Oz., 5c.; ¼ lb., 15c.; 1 lb., 35c.; 10 lbs., by express, \$2.50.

RED-FLESHED TANKARD.—Oz., 5c.; ¼ lb., 15c.; 1 lb., 40c.

SUGAR BEETS.

ZUCKER RUNKEL RUEBEN.

Sugar Beets are not as heavy yielders as the foregoing, but are of superior quality, containing a larger amount of saccharine matter. Thousands of acres are planted with Sugar Beets in Europe for the manufacture of Sugar. They are excellent for feeding cows, improving wonderfully the quantity and also the quality of the milk.

Extensive experiments carried on for the last 25 years by nearly every State Experimental Station in this country as well as by private enterprises together with the experience gathered by the enormous cultivation in Europe have established the fact that the profitable cultivation of Sugar Beets for the manufacture of sugar can be made a success in this country. There are, however, several vital points to be considered before entering into the work on an extensive scale. First fall is the adaptability of the locality; second, which variety will give the best results. The Experimental Stations of the respective states can give the most intelligent information on these two points and it would be advisable to get from their bulletins reports of the different trials made with Sugar Beets, which, no doubt, will be cheerfully furnished. A third equally important point is a good strain of seed, that is, a strain, which has been raised especially for the manufacture of sugar. We can offer this season such **special stock seed** that has been purchased from two of the most renowned firms in Europe who make Sugar Beet Seed a specialty, planting such Beets only for seed purposes that contain only a certain high percentage of sugar, rejecting all that fall below this average. This is done by a vegetable ryer which extracts a piece from the center of each Beet and subject a quantity of the same to chemical analysis. Of course this requires extra labor and expense but the added value of such seed can readily be seen.

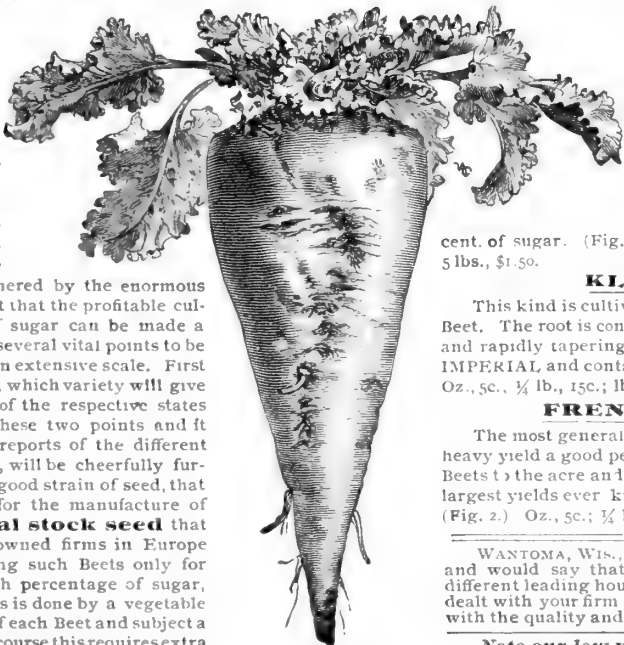


FIGURE 3.

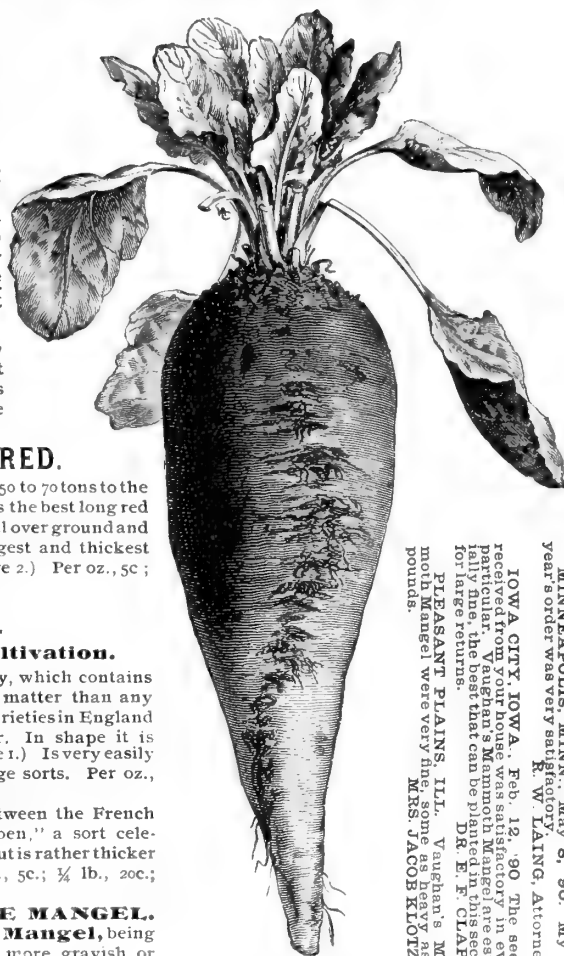


FIGURE 2.

MINNEAPOLIS, MINN., May 8, '90. My last year's order was very satisfactory.
K. W. LAING, Attorney.
IOWA CITY, IOWA, Feb. 12, '90. The seed I received from your house was satisfactory in every particular. My husband's Mammoth Mangel (the seed) has yielded a crop that can be put to use for large returns.
DR. E. F. CLAPP.
PLEASANT PLAINS, ILL. Vaughan's Mammoth Mangel were very fine.
MRS. JACOB KLOTZ.

VILMORIN'S IMPERIAL.

An improved French variety exceedingly rich in sugar. Under average conditions it has yielded 14 tons of roots to the acre, containing about 16 per cent of sugar. (Fig. 3.) Oz., 5c.; ¼ lb., 20c.; 1 lb., 60c.; by mail, postpaid; by express, 10 lbs., \$5.00.

LANE'S IMPROVED.

A very popular variety for feeding stock; it is a heavy yielder and contains about 8 per cent of sugar. (Fig. 2.) Oz., 5c.; ¼ lb. 15c.; 1 lb., 40c.; by express, 5 lbs., \$1.50.

KLEIN-WANZLEBEN.

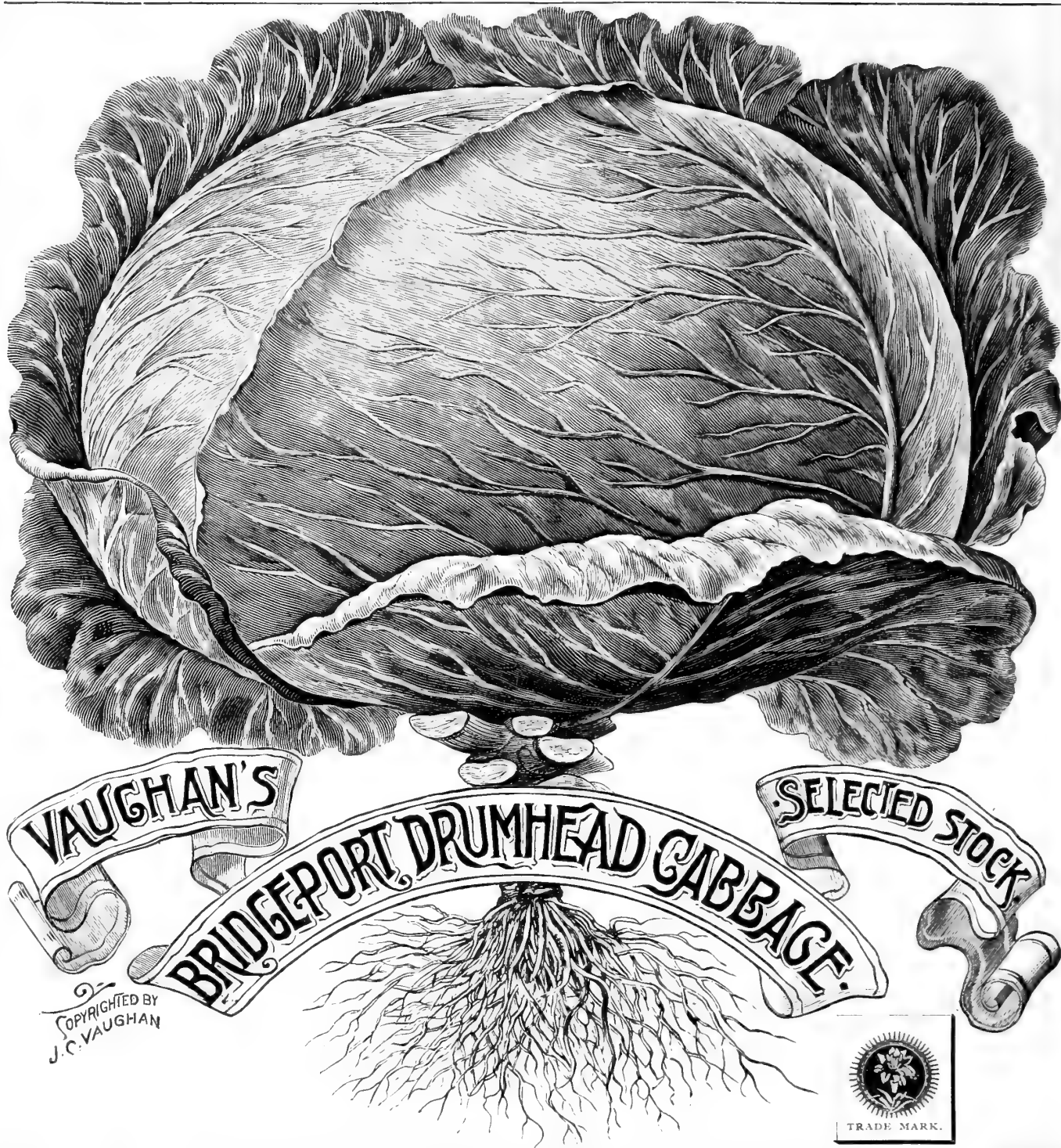
This kind is cultivated on a larger scale than any other Sugar Beet. The root is conical, straight and even, quite large at the head and rapidly tapering. It is a heavier yielder than VILMORIN'S IMPERIAL and contains from 13 to 15 per cent of sugar. (Fig. 3.) Oz., 5c., ¼ lb., 15c.; 1 lb., 40c.; by express, 5 lbs., \$1.50.

FRENCH RED-TOP SUGAR.

The most generally grown sort in France, as it combines with heavy yield a good percentage of sugar. It has produced 30 tons of Beets to the acre and 1 contains from 10 to 13 per cent of sugar. The largest yields ever known have been obtained with this variety. (Fig. 2.) Oz., 5c.; ¼ lb., 15c.; 1 lb., 40c.; by express, 10 lbs., \$2.75.

WANTOMA, WIS., March 25, '90. To-day we mail order for seeds and would say that out of more than a dozen catalogues from different leading houses have found yours the cheapest. We have dealt with your firm for several years and have always been satisfied with the quality and price of seeds.
D. L. BRAY.

Note our low price on Belgian Carrot Seed, which are equally valuable for stock feeding.



CABBAGE, BRIDGEPORT LATE DRUMHEAD.

THIS IS THE STANDARD SHIPPING SORT FROM THIS MARKET.

The home grown ordinary seed has sold as high as \$20.00 per lb. several times during the past ten years. Our local growers will have no other. Thousands of car-loads are annually used and shipped from Chicago south. It makes a large, round, firm head, which seldom bursts or rots. Since our introduction of this famous local sort to the public, seven years ago, the demand each year has exceeded our supply. The great demand has induced parties to sell all grades of late Cabbage as substitutes for the genuine article and being second rate seed of inferior selection, is offered at low rates. The extra value of our seed is shown from the fact that several seasons we could have sold every ounce we had to our home gardeners at our regular rates. We have a good supply this year, all raised from the largest, hardest and in every way most perfect heads and can make the price low enough so as to place it within the reach of every market gardener.

Price, per pkt., 10c.; per oz., 50c.; $\frac{1}{4}$ lb., \$1.50; lb., \$5.00.

We also have a few lbs. of Stock Seed of one of the largest local shippers, which we can supply as long as the stock lasts at the following price, per pkt., 25c.; per oz., \$1.25.

ATLANTA, ILL. Your Bridgeport Cabbage is, I think, one of the best I have ever tried, making very large, solid heads of excellent quality, none better.
J. M. BOYL.

ANN ARBOR, MICH. I never had finer Cabbage than I have this year. They are large, sweet and tender.
R. GOODELL.

BOX BUTTE, NEBR. I have planted your seeds for several years and have always found them A1, have never even had a package fail. Your Cabbage seed is especially fine and the Chicago Market Musk Melon is a Daisy.
G. M. BANKS.

OSAGE, IOWA. We have tried nearly all the different kinds of Winter Cabbage, but the Bridgeport beats them all for late market or winter: very large, solid heads, with no signs of rot or bursting.
E. VAN HOOSER.

* CABBAGE. *

The prices below include prepayment by mail.
FOR CABBAGE PLANTS SEE END OF VEGETABLE SEED LIST.

Culture.—The requirements for a good crop are rich soil, deep plowing, high manuring, Good Seed and thorough after culture. At the South a fall planting of seed and a removal of the young plants to cold frames for the winter is frequently resorted to, to secure a very early crop, but throughout the Northern latitudes a sowing of seeds in January or February in hot beds, and a transplanting in late April or early May to open ground, or an early sowing in open ground is the custom. Set the plants in rows 2 feet apart, and 12 to 18 inches apart in the row. For second early, sow in April and transplant in May. For late crop sow in May and transplant in July, setting the plants in rows 3 feet apart and 2 feet in rows. Our seed is grown from selected heads and saved from center shoots.—The purchase of cheap Cabbage Seed is the poorest investment in the world; the failure can never be known until an entire season's labor and outlay is lost.



N.W. EXPRESS.

SELECTED EARLY JERSEY WAKEFIELD.

THE BEST EARLY CABBAGE IN CULTIVATION.

It forms fine solid heads of good size, conical in shape, with very few out side leaves, and of the best quality. We offer this as the earliest strain of this standard variety. *Grown only from select heads.* Remarkably pure, and warranted to give satisfaction. Pkt., 10c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.50.

LUXEMBURG OR HARD HEADING.

Our market gardeners have for several years grown this variety, which was brought into this country by a German gardener who knew no name for it. It proved so valuable that the seed has been sold frequently at \$1.00 per ounce, and sometimes higher. It makes a *very hard head of good size* and extraordinary weight, and is remarkable for its *keeping qualities* when buried over winter. It is the best sort for late spring sales after all the other sorts are gone, when it commands a high price, owing to its dark green color, size and quality. *It is no doubt one of the most profitable sorts to grow* and every gardener should have it. Pkt., 10c.; ½ oz., 30c.; oz., 50c.; ¼ lb., \$1.50; lb., \$5.00.

FOTTLER'S IMPROVED BRUNSWICK.

We have an extra fine strain of this, with very uniform, large solid heads, and always sure to head. Pkt., 5c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

FOTTLER'S BRUNSWICK, Blue Strain.

We were the first who brought this excellent sort to the notice of our market gardeners who now like it very much. It forms large and solid heads, the leaves have a bluish tint, hence the name. This sort is a better keeper than FOTTLER'S IMPROVED. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

AUTUMN KING. (HENDERSON'S.)—The introducers claim this to be the finest strain of late cabbage, producing regular, even heads of enormous size. It makes very few outer leaves and is always sure to head. Try it. Pkt., 10c.; ½ oz., 40c.; oz., 70c.; ¼ lb., \$2.25; lb., \$5.00.

BUCKS COUNTY FLAT DUTCH.—This is a favorite late cabbage in the Philadelphia markets. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

Hyde Park.—An excellent keeper, of large size, flat, very deep, short stemmed and not apt to burst. Pkt., 10c.; oz., 50c.; lb., \$5.00.

Burpee's SUREHEAD.—This sort produces large, round, flattened heads which are very uniform, very hard and of fine texture and weigh from 10 to 15 pounds. It is a good keeper and shipper of fine quality and *certain to head*. Pkt., 5c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

RED CABBAGES.

Extra Early Dark Red Erfurt.—The earliest and finest red. Pkt., 10c.; oz., 30c.; ¼ lb., 75c.; lb., \$3.00.

Dark Red Dutch.—Heads hard, flat and large. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

RED DRUMHEAD.—Head very large, rounded in shape, slightly depressed, exceedingly hard; very deeply colored at the heart. The best for field culture and an excellent keeper. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

GIANT RED ERFURT.—A strain much larger than the EARLY ERFURT but very deep red and hard as a rock. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

MAMMOTH ROCK RED.—Heads as large as the Flat Dutch, deep red to the center; a very highly recommended sort. Pkt., 10c.; ½ oz., 25c.; ¼ lb., 45c.; oz., 85c.

SAVOY CABBAGES.

Extra Early Paris Savoy.—This is the earliest Savoy of good size, with solid heads beautifully crimped. Pkt., 5c.; oz., 25c.

Small Early Ulm Savoy.—Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.75.

MARVIN'S SAVOY.—This very distinct and uniform Savoy originated in a Long Island family, who have followed the trucking business for a century. The Cabbage is not only very large and solid but very curly, and will give 90 to 95 per cent. of good heads in every field. Pkt., 15c.; oz., 75c.; ¼ lb., \$2.50.

IMPROVED AMERICAN SAVOY.—Best late Savoy. Pkt., 5c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.75.

OSHKOSH WIS., Oct. 30, '90. The Luxemburg Cabbage is good; nearly every plant made a fair sized hard head, rounder than most of the Drumhead varieties.

PLEASANT PLAINS, ILL., Nov. 22, '90. Bridgeport Drumhead Cabbage is superfine, cannot well be surpassed in any country or by any variety.

MRS. JACOB KLOTZ.



SELECT EARLY JERSEY WAKEFIELD.

LARGE JERSEY WAKEFIELD.

This sort forms heads considerable larger than the EARLY WAKEFIELD, they are uniform, hard and solid and only a few days later. This sort is largely planted by market gardeners in the South and will be just as early on clay ground as the EARLY WAKEFIELD. We consider it the *largest and best early* cabbage. Pkt., 10c.; oz., 25c.; ¼ lb., 85c.; lb., \$3.00.

HENDERSON'S SUCCESSION.

It is about one week later than the Early Summer but of double the size, while it can be planted nearly as close, its outer leaves being unusually short. One of its characteristics is the fact that *it is always sure to head*. Pkt., 10c.; oz., 40c.; ¼ lb., \$1.25; lb., \$4.00.

BURPEE'S ALL-HEAD EARLY CABBAGE.

The introducers claim for this new sort the following points: It is the earliest of all large Cabbages, being at least a week earlier than Early Summer, it is fully one-third larger than this sort, it is sure to produce uniform and solid heads. We furnish the introducers' seed at their prices. Pkt., 15c.; 2 for 25c.; oz., 60c.; ¼ lb., \$1.75; lb., \$6.50.

Earliest Etampes.—Pkt., 5c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.25.

EXTRA EARLY EXPRESS.—France is undoubtedly in the front rank in producing many garden seeds and certainly so in the matter of early Cabbage. The New "EXPRESS" is from 8 to 10 days ahead of the Early Etampes, which it resembles in shape, though smaller. It has few outside leaves, and can be planted close. For a quick forcing sort, try it. Pkt., 5c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.50.

Early Jersey Wakefield.—A very good strain, almost as good as our SELECTED. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.50.

Early York.—Small early. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.

HENDERSON'S EARLY SUMMER.—We have an excellent strain of this well-known sort. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Early Winnigstadt.—Sure to head on all soils. A great favorite with the Germans. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Early Flat Dutch.—Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

All Seasons.—Nearly or quite as early as Early Summer; heads harder and larger and *is as good for late market or winter use as for early*. Pkt., 5c.; oz., 25c.; ¼ lb., 85c.; lb., \$3.00.

St. John's Day Early Drumhead.—Pkt., 5c.; oz., 25c.; ¼ lb., 75c.

Filderkraut.—A German favorite. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.

Denmark Drumhead.—Pkt., 10c.; oz., 35c.; ¼ lb., \$1.00.

Stone Mason.—A large, solid, late Drumhead, much used in Boston. Ours is from the best Mass. grower. Pkt., 10c.; oz., 30c.; ¼ lb., 85c.; lb., \$4.00.

Marblehead Mammoth Drumhead.—Late; the largest cabbage grown. Pkt., 10c.; oz., 40c.; ¼ lb., \$1.25; lb., \$4.00.

Louisville Drumhead.—Pkt., 10c.; oz., 60c.; ¼ lb., \$2.00.

Large Late American Drumhead.—An excellent, specially selected strain of this standard variety for the main crop. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.60.

Warren's Improved.—Pkt., 10c.; oz., 40c.; ¼ lb., \$1.25; lb., \$4.50.

PREMIUM FLAT DUTCH.—No cabbage is so universally grown as this, and for the reason that the seed may be sown in the open ground and the young plants started without the use of hot-beds—hence it is the favorite with all people for general use. In our seed of this we have a strain that is reliable for heading, evenness of crop and size cannot be surpassed. Do not be deceived by fancy names, but buy our seed under the plain title of PREMIUM FLAT DUTCH, and you will get a first-class article. Pkt., 5c.; oz., 15c.; ¼ lb., 60c.; lb., \$2.00.

MARSELLES, ILL., Nov. 22, '90. The Bridgeport Cabbage was the nicest I have had for years. A. S. GUNN.

LA CROSSE, WIS., Oct., '90. Your Luxemburg Cabbage was fine. G. WEISS.

ABINGDON, ILL. Your Luxemburg Cabbage was good. SABINA KAYS.



LUXEMBURG OR HARD HEADING CABBAGE.

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BY J. C. VAUGHAN

CAULIFLOWER.

FOR PLANTS OF CAULIFLOWER, SEE END OF VEGETABLE SEED LIST.

CULTURE.—Cauliflower ought to receive a similar treatment to Cabbage, except that it requires an extra rich soil, an occasional application of liquid manure and frequent watering, especially when heading. Early sorts in this latitude are mostly sown in January or February in hot-beds, transplanted once before setting in open ground, and finally transplanted before the middle of April, in rich, deeply-worked soil 2 feet by 15 inches apart. Late sorts are sown and cultivated like late Cabbage. When heading tie the top leaves together to protect from exposure to the sun. $\frac{1}{2}$ oz. of seed sows about 100 yards of row and gives about 1,500 plants.

VAUGHAN'S EARLIEST DWARF ERFURT.

THE VERY BEST FOR FORCING AND EARLIEST IN OPEN GROUND.

FOR at least 40 years and probably more the city of Erfurt, Germany, has been renowned for its Cauliflower growing, and as a natural consequence its Cauliflower Seed, with the natural improvement which always follows large cultivation and selection, the Erfurters have brought their strains to the very highest perfection. We find in various seed catalogues scores of alleged NEW Cauliflowers under new and fancy titles, but the real truth is, these are only selections from the Erfurt strains, than which none better can be had. We have seen fit for several years to import direct from Erfurt the highest priced seed obtainable of the above strain, **Earliest Dwarf**, and though others may have equally good, we believe **none are better and find ours runs invariably true to type.** It is of dwarf, compact growth, with short stalk and can be planted very closely as the leaves grow upright, protecting the heads. **The heads are beautiful white, very large and firm, measuring 8 to 10 inches across, of fine grain and form quickly.** Market gardeners who want the best should plant none but this kind. Pkt., 40c; $\frac{1}{4}$ oz., \$1.75; oz., \$6.00; $\frac{1}{2}$ lb., \$20.00.

HENDERSON'S EARLY SNOWBALL.

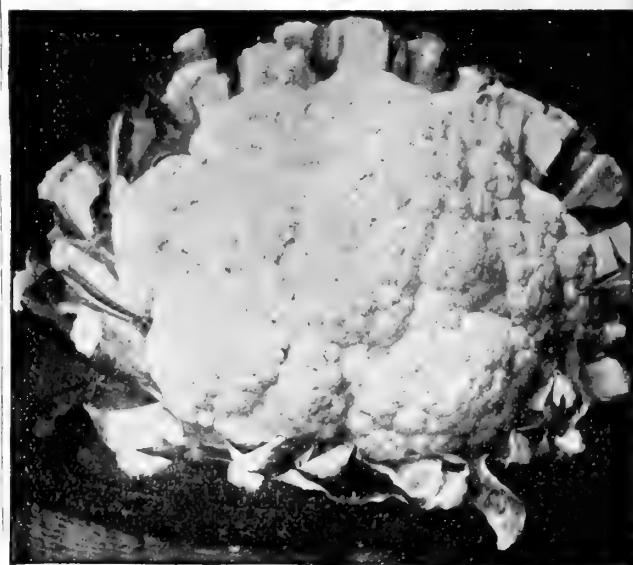
(In Henderson's Sealed Packages.)

This is undoubtedly one of the best known sorts and it is useless for us to repeat the description in detail; it is equally valuable for the market gardener and for family use, good for early and late planting and as stated above our seed is put up by Henderson & Co. and supplied by us in ounces and parts of ounces in their sealed packets and at their prices, which are as follows: Pkt., 25c; $\frac{1}{4}$ oz., \$1.00; oz., \$4.00; $\frac{1}{2}$ lb., \$14.00.

DANISH SNOWBALL. We have tested this strain for two seasons and found it to possess all requirements of an extra early Cauliflower, forming its beautiful large heads quickly, which are solid, of fine and close grain and as white as snow, and we would recommend at least a trial to be planted along side of the above strain, and we are sure the result will be highly satisfactory. Pkt., 15c; $\frac{1}{4}$ oz., 80c; oz., \$3.00.

EXTRA EARLY PARIS. Good for forcing, a standard early variety. Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.00; lb., \$7.50.

Half Early Paris. Largest for forcing, early. Pkt., 10c; oz., 75c.



CAULIFLOWER, VAUGHAN'S EARLIEST DWARF ERFURT.

EXTRA EARLY DWARF ERFURT.

This is a very fine strain, producing large, white, firm heads, very close and of excellent quality. It is **extra early and always certain to head**, is equally good for early or late planting. We recommend our strain of this variety as superior to the Early Snowball and at lower price. Our Market Gardeners are highly pleased with it and our sales increase every year. Pkt., 15c; $\frac{1}{4}$ oz., 75c; oz., \$2.75; $\frac{1}{2}$ lb., \$10.00.

LARGE EARLY ERFURT. This is a large and vigorous growing variety with large, white and firm heads. One of the best for late. Pkt., 10c; oz., 75c.

Lenormand's Short Stem Mammoth. Producing large, fine heads of good substance. Pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.00; lb., \$7.50.

Walcheren. A late sort, large white head. Pkt., 10c; oz., 75c.

Autumn Giant. Heads large, compact and very white, well protected by the foliage. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.

Algiers. One of the largest and best for late use; forms large, solid and very white heads; is sure to head. Pkt., 10c; oz., 75c; $\frac{1}{4}$ lb., \$2.50.

CARROT.

MÖHREN ODER GELBE RUEBEN. **Culture.**—A light sandy loam, well tilled and manured the previous year best suits the Carrot. For early crops sow as early as the ground can be worked, in drills 10 inches apart, and thin to 5 inches in the rows. The French Horn, owing to its extreme earliness, is used for hot-bed culture. **The prices below include prepayment by mail.**

AMSTERDAM FORCING.

An extra fine Carrot of superior quality. The root grows about 6 inches long, is blunt pointed, of good shape and fine color and flavor. It is a very quick grower and especially suitable for forcing in frames and for bunching. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25. (Fig. 6.)

GUERANDE OR OXHEART.

A thick Carrot 5 or 6 inches long and very blunt at the lower extremity. It grows very rapidly and the root very often attains a weight of more than a pound. It is tender and of good flavor and a variety we can recommend to all market gardeners. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25. (Fig. 5.)

CHANTENAY.

One of the most perfect and uniform in shape, smooth, heavy yielder and of fine table qualities. It grows 5 or 6 inches long. Is fine in texture and easily dug; the flesh is of a beautiful deep orange, tender, and of excellent flavor. **One of the very best for table and market use.** Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00. (Fig. 2.)

Very Early Scarlet.—(French Horn.) For forcing, earliest, smallest; nearly round; 2 inches in diameter; fine quality. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.25. (Fig. 1.)

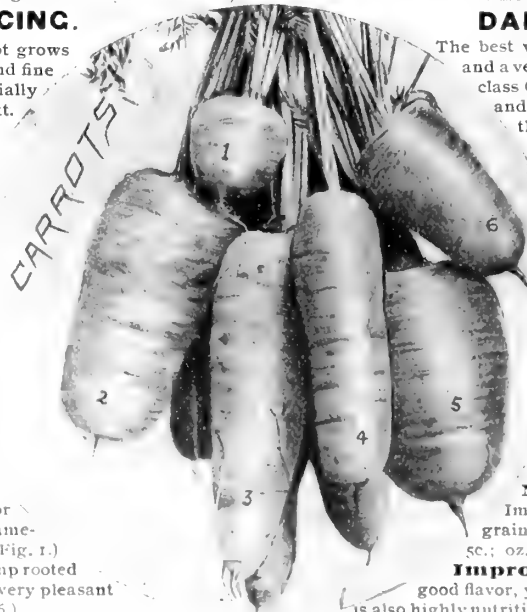
Early Short Scarlet.—(Dutch Horn.) Stump rooted about 4 inches long; fine for forcing, rich color and of very pleasant flavor. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 90c. (Fig. 6.)

Half Long Luc.—An early, very productive sort, blunt pointed, good shape and color; 7 to 8 inches long. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c. (Fig. 3.)

Half Long Scarlet Carentan.—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.

Half Long Danvers.—A very good strain of this favorite sort which is superior to most strains of this sort offered. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Saint Valery.—It is of a rich, deep orange color, large and handsome, grows very straight and about 12 inches long. The quality is excellent. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.



DANVERS. SELECTED STOCK.

The best variety for general crop; it is of rich orange color, and a very heavy yielder; a splendid keeper. It is a first-class Carrot for all soils, and valuable both for table use and for stock. We have an extra fine strain of seed of this favorite sort, which we have sold several years with the greatest satisfaction to our customers; we pay one-third more for our stock of this variety than the usual wholesale market price. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25. (Fig. 3.)

JAMES' INTERMEDIATE.

This variety nearest resembles the Danvers, (it might be called two-thirds long), but is thicker at the shoulder and heavier than that sort. It is enormously productive and of strong deep color. Imported and introduced by us in 1886. Is sold under other names by some seedsmen, the above is correct, having been selected and perfected by Mr. James. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00. (Fig. 3.)

Half Long Stump-Rooted.—(Short Horn.) Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c. (Fig. 2.)

Nantes' Early Half Long Scarlet.—Improved stump-rooted Horn; sweet, of very fine grain; excellent for the home garden and market. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00. (Fig. 4.)

Improved Long Orange.—Deep orange color; good flavor, yields heavily. It is of excellent table quality, and is also highly nutritious for stock. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 65c.

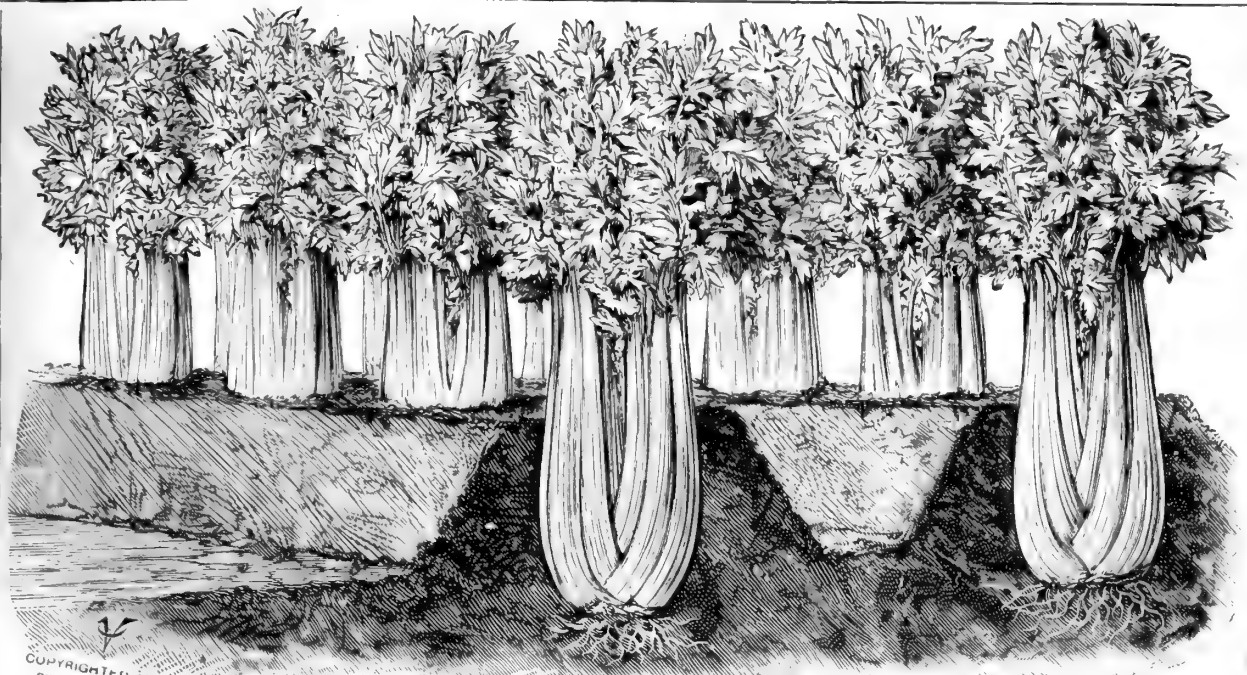
Long Red Without Core.—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 75c.

Long Scarlet Altringham.—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 70c.

Orange Belgian Large.—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

Long White Green Top Belgian.—Oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 60c.

The last two sorts are largely grown in Europe for feeding stock, especially horses, by whom they are much relished. They grow about 20 inches long, partly above ground, which renders the harvesting very easy, are enormously productive, keep well, and are very nutritious.



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BY J. C. VAUGHAN

VAUGHAN'S GIANT GOLDEN HEART CELERY.

[FOR CELERY, PEPPER AND TOMATO PLANTS, SEE
END OF VEGETABLE SEED LIST.]

CELERY.

Chicago is one of the Largest Celery markets in the world, and our strains for Market Gardeners use are unexcelled.

VAUGHAN'S GIANT GOLDEN HEART.

THE BEST CELERY FOR THE MARKET GARDENER AND FOR WINTER USE.

CULTURE. Sow the seed late in March, or early in April on fine well worked soil. Cover lightly, or better still, roll or press it in. Shade the young plants for a week or ten days, and do not let the soil dry out. Cut them once or twice before setting out, to make them stocky. When from 4 to 6 inches high transplant into broad shallow trenches, or to level ground, setting dwarf sorts in rows, 3 feet apart, and tall sorts 4 feet apart, 6 inches apart in the rows.

For further particulars see our Celery Manual which is sent free by mail for 50 cents or free with every order for Celery Seed amounting to \$3.00, if so requested at the time of ordering.

AMONG the new vegetables grown as specialties of Chicago, which we have introduced to the public, this Celery stands higher than any other sort. Owing to unfavorable seasons as well as to the large demand, we have been entirely sold out long before the close of the season ever since we introduced it seven years ago, but this year we have again a good supply and are therefore able to sell it at a greatly reduced price. The variety has been produced by careful selection and high culture from the Dwarf Golden Heart, by one of the best Celery growers near Chicago where, as is well known, a very large amount of Celery is grown for market. It is of most delicious flavor and **the best keeper through the winter.** It grows much taller than its parent, the stalks are very broad and perfectly solid. **In quality, appearance and size this variety leaves nothing to be desired.** We recommend it as the **BEST CELERY FOR THE MARKET GARDENER** now before the public, while its fine flavor and rich color makes it most desirable for private use. Pkt., 10c.; oz., 50c.; $\frac{1}{4}$ lb., \$1.40; lb., \$5.00.

LANCASTER, WIS., Oct. 27, '90.—The Giant Golden Heart Celery is a success with me, it has a fine flavor and rich color and I have some of it three feet high.

WM. ROTHCHILD.

ANNAWAN, ILL., Oct., '90.—Giant Golden Heart Celery has done excellent.

N. WARNOCK.

WALNUT, ILL.—Giant Golden Heart Celery did very fine, it is **THE CELERY.**

J. W. GOLDEN.

LYSANDER, N. Y., Aug. 7, '90.—The seeds I purchased of you last spring were of most excellent quality, not one variety proved a failure.

C. W. ALLEN.

CHICAGO DWARF GOLDEN HEART.

This is a Celery for the large market gardener; spongy and hollow stock he has no use for, seed producing such render his crop a failure, waste his time, money, land and manure. The **Chicago Dwarf Golden Heart**, introduced by us last year has been grown by Mr. Bristol of Lake View from a few of the original plants which seemed to be the exact type wanted in this market and especially for its solidity. Light soils are more liable to grow spongy Celery than others, but this **does not show one hollow stalk in one thousand dozen.** The originator has a very extensive trade in some of the largest Western cities and he has shipped as much as one carload to one firm. It is a most reliable selection and you can safely plant it for your main crop. Pkt., 5c.; oz., 40c.; $\frac{1}{4}$ lb., \$1.25; lb., \$4.

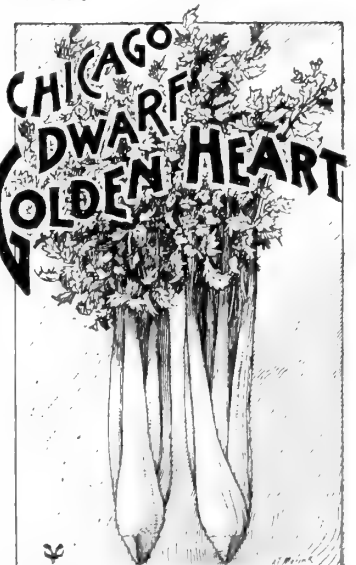
MONROE, WIS., Oct. 27, '90.—Chicago Dwarf Golden Heart Celery is very fine and easy to bleach. C. D. G. H. for main crop and White Plume for early is good enough for any Gardener. H. A. NESSEL.

GOLDEN SELF-BLANCHING.

The introduction of this and the White Plume marked a decided advance in the use of this vegetable by all amateur growers. The time and labor required in bleaching was in these nearly overcome. This strain is no doubt to-day the finest in cultivation for the home garden, being a sport originally from the green it will still occasionally show a green plant, but our seed for 1890 and 1891 from the original Paris introducers is as pure a strain as exists. Its rich golden yellow color, its close habit and compact growth and greater than all the readiness with which it is bleached and rendered marketable make it invaluable to the gardener and exceedingly popular with every planter. The entire stalk is solid, crisp, and a much better keeper than the White Plume. Pkt., 5c.; oz., 40c.; $\frac{1}{4}$ lb., \$1.15; lb., \$4.00.



GOLDEN SELF-BLANCHING CELERY.





NEW GIANT PASCAL.

LARGE RIBBED DWARF SOLID or Kalamazoo.—The stalks are extremely broad, solid and erect, so that the plants may be grown very close together. It is easily blanched and does not produce suckers. Quality very good. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.25.

EARLY MARKET.—A strain of Boston Market which is about **two months earlier than the former**, so the second crop can be sold off the same land before the Boston Market begins to sell. It is a short, stocky, strong grower, and will blanch at any stage of its growth. A well grown plant is about 18 inches high, while at the height of 15 inches the plants are about 12 inches in circumference. While we do not claim it to be superior to the most existing varieties, we do claim its extreme earliness makes it a most valuable sort for the market gardener to grow. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.25.

NEW ROSE.—The red and pink Celeries have been deservedly gaining in popular favor for several years past, both because they are hardier and better keepers than the yellow and white sorts, and because of their superior flavor and crispness. This new sort combines with the above fine qualities, a handsome appearance which renders it an attractive ornament to the dinner table, the heart and stems being shaded to a fine rose color. Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 80c.; lb., \$3.00.

DWARF GOLDEN HEART.—The most popular variety of all. Its handsome color, medium size and fine flavor render it the leading sort both for home and market use. It is one of the best keepers. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

Early Arlington.—Pkt., 5c.; oz., 30c.; $\frac{1}{4}$ lb., 85c.; lb., \$3.00.
BOSTON MARKET.—A new variety, though quite dwarf and very branching, is regarded as possessing the finest table qualities; popular for home use. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

PERFECTION HEARTWELL.—A strong grower; solid, never hollow and an excellent keeper, one of the best market sorts. Pkt., 10c.; oz., 30c.; $\frac{1}{4}$ lb., \$1.00; lb., \$3.00.

Crawford's Half Dwarf.—Is seldom hollow, of rich flavor. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 65c.; lb., \$2.25.

White Solid.—Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 65c.; lb., \$2.25.

Red Giant Solid.—Pkt., 5c.; oz., 25c.

Old Celery Seed.—Used for flavoring. Oz., 5c.; $\frac{1}{4}$ lb., 15c.; lb., 35c.

VAUGHAN'S CELERY MANUAL.

A complete guide to all operations connected with the business of cultivating, harvesting and storing crops. It embraces the questions of **Soils, Fertilizers, Varieties, Double Cropping, Shipping, etc.**, etc. By a grower of 20 years experience, revised and published by J. C. Vaughan; 40 pages, postpaid, 50c. This book will be sent free when requested with every **Celery Seed order** amounting to \$3.00 or upwards, or with any general order for other seeds, at catalogue rates, amounting to \$5.00 or upwards, but it is necessary to state if this book is wanted as a premium when sending the order.

CELERY CROWER.

A new and carefully prepared fertilizer especially suited to this crop which demands high fertilizing. Price, 50 lbs., \$1.25; 100 lbs., \$2.00; 200 lbs., \$3.50.

CELERY—CONTINUED.

HENDERSON'S WHITE PLUME.

A handsome, crisp sort of very easy cultivation. Naturally its stalk and portions of its inner leaves and heart are white so that by closing the stalks either by tying or by simply drawing the soil up against the plant and pressing it together, the work of blanching is completed without the additional troublesome process of "banking" or "earthing up." Its eating qualities are equal to the very best other sorts, being crisp, solid and of a rich nutty flavor. It is not so good a keeper as our Giant Golden Heart, but it is unsurpassed for fall and early winter use and is the **earliest Celery known**. Pkt., 5c.; oz., 30c.; $\frac{1}{4}$ lb., 85c.; lb., \$3.00.

NEW GIANT PASCAL.

The latest and best variety of Celery. It is a selection from the Golden Self-Blanching, and adds to the general good qualities of its parent, superior keeping qualities. The stalks are very large, thick, solid, crisp and of a rich nutty flavor, free from any trace of bitterness; it blanches very easily and quickly and retains its freshness a long time after being marketed. The heart is golden yellow, very full and attractive in appearance. Pkt., 10c.; oz., 50c.; $\frac{1}{4}$ lb., \$1.75; lb., \$6.00.

SOLID IVORY.—Its growth is very dwarf and compact allowing a much closer cultivation than any of the tall sorts, and its color white throughout. As a Celery for the use of hotels it is unequalled, there being hardly any waste in dressing it for the table. It is one of the most solid and crisp eating sorts, while its delicious nutty flavor cannot be excelled. Pkt., 10c.; oz., 40c.; $\frac{1}{4}$ lb., \$1.25; lb., \$4.00.



HENDERSON'S WHITE PLUME.

CELERIAC.—KNOLLEN-SELLERIE.

Culture.—Sow early in spring. Transplant May into rich mellow soil in rows 18 inches apart and 6 inches in the row. Water in dry weather. Little or no earthing up is required. The turnip-shaped root for which this is grown are ready in October and are used in soups and as a salad. One ounce will sow 100 feet of row.

Large Erfurt Turnip Rooted.—Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

Turnip Rooted Apple Shaped.—Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.

LARGE SMOOTH PRAGUE.—Short leaved, very smooth sort, very large, of excellent flavor this is by far the best of the turnip-rooted sorts. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

CARDOON.

SMOOTH LARGE SOLID.—Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.

CHEVIL.—KOERBEL.

Culture.—Sow in a deep mellow rich seed-bed in drills 9 to 12 inches apart and cover 2 inches deep with fine soil. Cultivate like parsley. The leaves are used for soups and salads. One ounce of seed will sow 100 feet of drill.

Double Curled.—Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

CHICORY.—KAFFEEWURZEL.

Culture.—Its dried roots are used as a substitute or an ingredient for coffee. Sow in good rich soil half an inch deep an cultivate like carrots. In Fall cut the roots in pieces about an inch in length, string and dry like apples. The dried roots are roasted and ground like coffee, or the roots may be blanched for a salad. One ounce sows 100 feet of drills.

Large Rooted Magdeburgh.—Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.

Large Rooted Brussels or Whitloof.—Produces a white heart, which is good as a salad. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

CORN SALAD.—ACKER SALAT.

Culture.—A small salad. Sow in Spring in drills one foot apart. Keep clear from weeds. It will mature in six to eight weeks. For early Spring use sow in September, thickly in drills $\frac{1}{4}$ inch deep. Tread the ground if dry weather. Protect with litter when cold weather comes and winter over like spinach. One ounce will sow thirty-five feet of row.

Large Round Leaved.—Finest. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 70c.

DANDELION.—LOEWENZAHN.

Culture.—The Dandelion is cultivated for early spring greens, or is blanched for salad, its roots dried and roasted are used as a substitute for coffee.

Thick Leaved or Cabbaging.—An improvement on the common sort, the leaves being double the size. Pkt., 10c.; oz., 60c.

Improved.—Very Early. Especially fine for forcing. Pkt., 10c.; oz., 75c.

ST. PAUL, MINN., March 5th, 1890.—I have been using your seeds for three years now and I have been generally well satisfied. I always consider when I sow your seed that I am on the right track, and I know also that they will grow under ordinary weather and circumstances.

JOHN CAMERON.

SWEET CORN.

THE great popularity of this vegetable in American homes prompts us to call especial attention to the improved table qualities of our newer varieties emphasized below. They deserve your trial.

Culture.—Make the first planting about May 1st, and sow every two weeks thereafter until the middle of July for succession. Plant in hills three or four feet apart according to size of variety or strength of soil. One quart of seed plants 100 yards of row.

At the rates mentioned we prepay all Packets, Pints and Quarts. If wanted to go at buyer's expense, 10 cents per quart may be deducted. Prices on Pecks and Bushels do not include prepayment.

Prices for all kinds, except marked otherwise: Pkt., 5c.; pint, 15c.; qt., 30c.; not prepaid, peck, 75c.; bush., \$2.75.

EARLY VARIETIES.

BURBANK'S EARLY MAINE.

As early as Cory, larger and pure white.

This candidate which appeals to the shrewd market gardener as well as every owner of a home garden plot, comes from the state whose name it bears and whose latitude is an indication of earliness in all vegetables. It has a pure white cob with a rich cream white kernel sweet and juicy. Shows none of the red shade like Cory or Marblehead when cooked for the table. A fine ear, of good size, (see photo which represents it in natural size,) stalk medium, and on good soil often bears two ears. It is the result of six years' careful selection. Experienced gardeners and others who have grown it for the past two years find it the largest white first early Sweet Corn they have grown. Read what some of our customers say. We positively believe this the best early Sweet Corn grown. Pkt., 10c.; pint, 25c.; qt., 40c.; not prepaid, qt., 30c.; ½ peck, 80c.; peck, \$1.40; bushel, \$4.50.

DOUGLAS CO. NEB. Aug. 19, '90. I am much pleased with your new "Burbank's" Corn. I had a few hills planted along with 17 other kinds, but unfortunately had no Cory to plant at that time. "Burbank's" was far the earliest of any kind I had. The crop for seed was planted June 2d, and by August 1st the principal part of the ears was getting too hard to use. J. C. ROBINSON.

EARLY CORY.

One of the earliest marketable Sweet Corns. Stalks 3½ to 5 feet high, ears 10 to 12 inches from the ground, about 6 inches long, generally two or three ears to the stalk; first ears are fit for use in about 44 days after planting; owing to its earliness one of the best for market. Pkt., 10c.; pint, 20c.; quart, 30c.; peck, \$1.00; bush., \$3.50.

Northern Pedigree.—We recommend it as the earliest for home use. Pkt., 10c.; pint, 25c.; quart, 45c.

Early Marblehead.—Like Cory but few days later.

Early Minnesota.—Ready for use in about 62 days.

Ford's Early.—A most desirable extra early Corn, only a few days later than Minnesota but superior in yield and quality. Pkt., 5c.; qt., 35c.; peck, \$1.00; bushel, \$3.40.

Early Crosby.—A well known sort.

Adam's Early.—Not sweet, but early and tender.

MEDIUM VARIETIES.

NE PLUS ULTRA OR SHOE PEC.

A new medium early variety which we consider one of the best for private use, being delicious, sweet and tender. It is very productive, bearing from 2 to 4 ears to the stalk; the kernels are very deep, placed completely upon the cob. Pkt., 10c.; pint, 25c.; qt., 40c.; peck, \$1.25; bush., \$4.50.

PERRY'S HYBRID.

There is no better second early for the market gardener. It is nearly as early as Early Minnesota but makes a larger ear of good color and appearance. While not so sweet as others it certainly is a very profitable sort. Pkt., 5c.; qt., 30c.; peck, 80c.; bush., \$2.90.

BONANZA.

Another very profitable sort, with very large ears, fit for use as early as the Perry's Hybrid, well filled up to the tip. It is a very prolific variety, bearing two or three good ears to a stalk. Pkt., 5c.; qt., 30c.; peck, \$1.00; bush., \$3.60.

Moore's Early Concord.—A favorite market sort.

Pee and Kay.—Fit for use in about 8 weeks.

Asylum Sugar.—A favorite canning sort.

Black Mexican.—The sweetest Corn grown.

Shaker's Early.

Hickox Improved.

Early Eight Rowed.

New Red Cob Evergreen.—This grand medium

early Sweet Corn coming in before

there is any larger Corn on the

market, is very profitable for Market

gardeners. It is very produc-

tive; has large well filled ears, with

deep broad kernels and small cob,

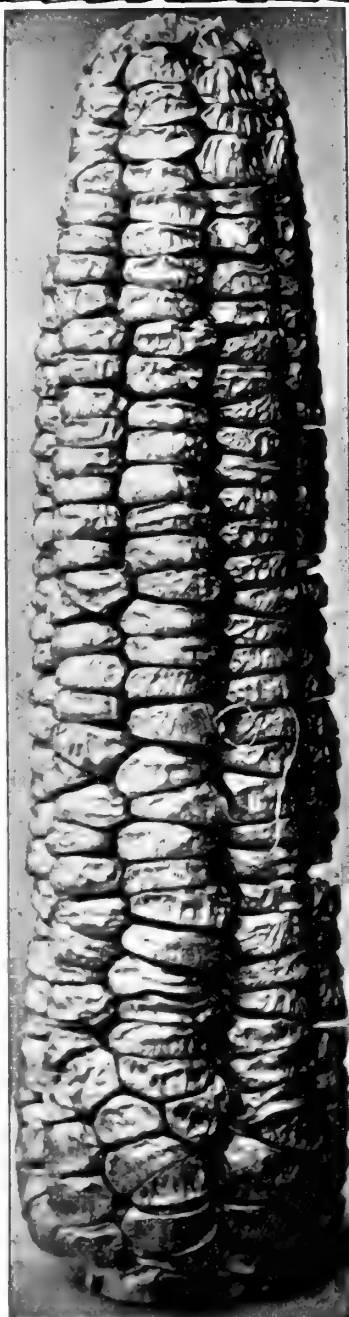
filled well over the tips, very sweet;

selling on the market from two to

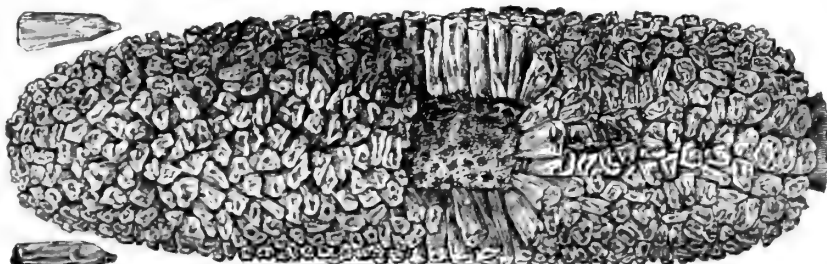
three cents higher per dozen than

any other corn. Pkt., 5c.; qt., 35c.;

peck, \$1.00; bush., \$3.50.



BURBANK'S EARLY MAINE.



NE PLUS ULTRA OR SHOE PEC.

LATE VARIETIES.

OLD COLONY.

A NEW selection of the Evergreen type, but about ten days earlier, which has come into high favor with our customers the past seasons. Mr. E. B. Clark, who originated and named this sort, is probably the largest grower of Sweet Corn in the world, and believes the Old Colony is the best late sort for all purposes. The ear, when ready for the market, can hardly be distinguished from the Evergreen, and is ready ten days earlier. We think it is sure to supplant that variety as it becomes more widely known. Pkt., 5c.; pint, 20c.; qt., 35c.; pk., 85c.; bush., \$3.00.

NEW GOLD COIN.

This new Sweet Corn is remarkably distinct and handsome in appearance. It is very productive, yielding two mammoth ears to the stalk. In quality it is most delicious. The cob is snowy white, compactly covered with large, deep grains of a beautiful golden yellow color. Perhaps its most valuable characteristic lies in the fact that it is Evergreen to an unprecedented degree. The great bulk of the crop can be gathered any time during a period of four weeks, and found in perfect condition for table use. We commend it to all lovers of Sweet Corn. Pkt., 5c.; pint, 20c.; qt., 35c.; peck, \$1.25; bush., \$4.50.

STOWELL'S EVERGREEN.—This variety is too well known to need any description, suffice it to say for those that have not yet planted it, that it is the sweetest late Corn. Our strain is very choice. Pkt., 5c.; pint, 15c.; qt., 25c.; peck, 60c.; bushel, \$2.00.

Potter's Excelsior.—A good late sort.

LATE MAMMOTH SUGAR.—This sort produces larger ears than any other Sweet Corn, besides being sweet, tender and of excellent quality.

Egyptian.—Very sweet, good for canning, ears large.

Triumph.—Productive; a week earlier than Evergreen.

FIELD CORN.—See "Farm and Field Seed."

POP CORN FOR THE BOYS.

Price for any kind except noted otherwise, *postpaid*, pkt., 5c.; ½ lb., 20c.; lb., 30c.; not prepaid, lb., 20c.; 3 lbs. for 40c.

ILLINOIS SNOWBALL.—Introduced by us in 1885. A cross of the Common Rice and the White Pearl. The ears are double the size of the common variety; it is exceedingly prolific, having yielded 65 bushels on ½ acre. It is a strong stocky grower, but quite dwarf; seldom exceeding 5 feet in height; bears two or three fine heavy ears. It is the best Pop Corn for general use in the home garden we know of. See prices above and for larger lots 10 lbs. 75c.; 50 lbs. \$3.25.

White Rice.—A very fine white variety, ears 4 to 5 inches in length and 1 to 1½ in diameter. Kernel pointed. Especially salable among the retail grocers. 10 lbs., 60c.

WISCONSIN EIGHT ROWED.—The standard variety for the market. It is used largely by popcorn manufacturers. Grain is broad, smooth and pops out large. Yields well, and can be husked readily. 10 lbs., 60c.

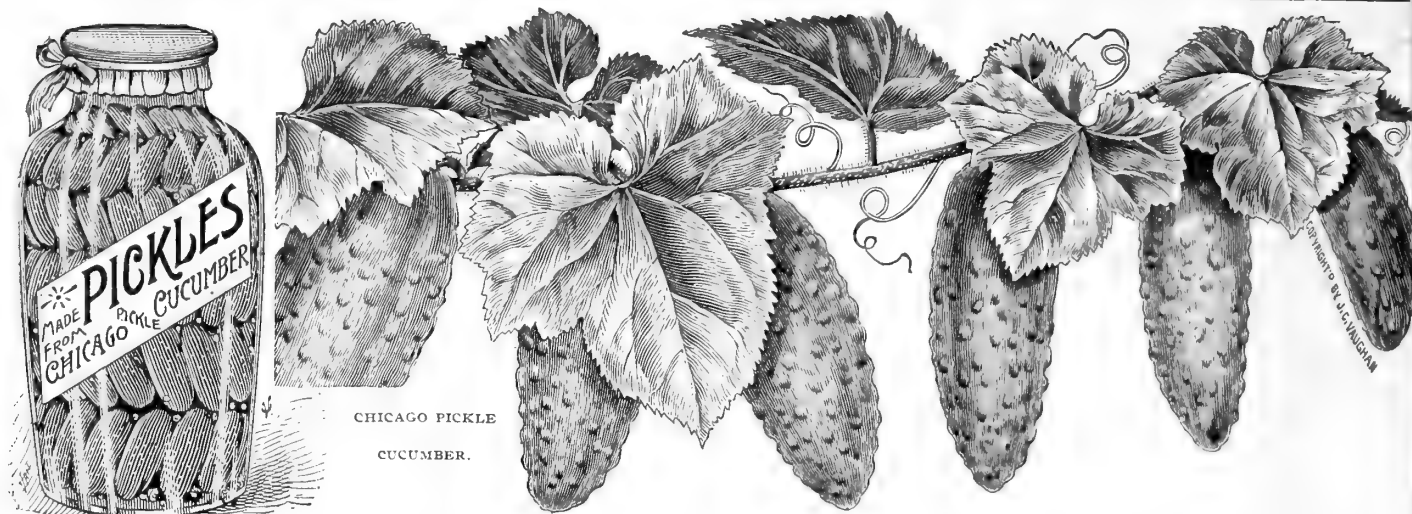
PREMIUM PEARL.—Kernels pearly white; ears 6 to 8 inches long and very handsome with 12 to 16 rows; prolific, bearing 3 to 5 ears on a stalk which grows 6 to 7 feet high; of medium early maturity and a fine popper. 10 lbs., 75c.

CALIFORNIA GOLDEN.—The stalk grows from 3½ to 4 ft. high, bearing numerous very small miniature ears, from 2 to 3 inches in length, perfect in form and shape. Deep pointed grains of a golden color. Its popping qualities are superior. It is also valuable and highly esteemed for mantle ornaments. Pkt., 10c.; ½ lb., 20c.; lb., 35c.

Striped Rice.—Quite a distinct cross of the red and white rice, appearance is quite striking. Not prepaid, 3 lbs. 40c.; 10 lbs. \$1.00.

Mapledale Prolific.—The most prolific variety grown, a single stalk having yielded 22 ears. The kernels are nearly clear white in color, the stalks grow six feet high, the ears are large in size averaging 6 in., while many reach 8 in. in length. It pops pure white and is of good quality. Pkt., 5c.; ½ lb. 25c.; lb., 40c.; not prepaid, 3 lbs. 60c.; 10 lbs., \$1.50.

Queen's Golden.—One of the largest, kernels yellow; very large and tender. Not prepaid, 5 lbs., 40c.; 10 lbs., 75c.; 50 lbs., \$3.25.



VAUGHAN'S WESTERN GROWN CUCUMBER SEED.

THE prairies of the West are known by all seedsmen as the best adapted for the growth of such vine seeds as the Cucumber, Melon, Squash, Pumpkin, etc., not alone on account of purity through convenience in isolating the different varieties, but for their rank growth and large yield on the rich natural soil. Our **Chicago Pickle Cucumber** and **Chicago Market Melon** have become celebrated throughout the Union. The general list of Cucumber seeds given below includes all the best varieties known and offered at lowest living prices for reliable seed.

WESTERFIELD'S CHICAGO PICKLE.

Like our Bridgeport Cabbage, Chicago Market Melon, and Giant Golden Heart Celery, this is a specialty first sent out by us and now become a standard variety among the gardeners and seedsmen of the country. We supply the leading seed growers of the country with our **selected seed**. It is UNDOUBTEDLY THE BEST CUCUMBER FOR PICKLES, used almost exclusively by our pickle factories. The fruit is of medium length, pointed at both ends with large and prominent spines, color deep green. It is a most prolific variety, beginning to set its fruit when the vines are quite young.

SELECTED SEED, Pkt., 10c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

ORDINARY SEED, (Grown from Westerfield's Stock.) Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

THORBURN'S NEW EVERBEARING. See back cover page for price and illustration and last page in catalogue for description.

NEW SIBERIAN. This has proved to be the earliest sort in cultivation, producing Cucumbers 5 inches long in about eight weeks. It is very productive and valuable for forcing. Pkt., 5c.; 3 for 10c.; oz., 20c.

IMPROVED WHITE SPINE. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Peerless White Spine. Earliest strain of White Spine; of good size, straight and always well formed; full at both ends, deep green, holding its color until mature; very productive. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 90c.

EXTRA LONG WHITE SPINE. Longer than the above, of fine quality for family use. They grow 10 to 12 inches long and when about five inches long make good pickles. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 90c.

EVERGREEN WHITE SPINE. This new sort grows extra long, is of handsome and smooth shape, **very early and prolific**. It differs from the other strains of White Spine in the fact of **always remaining of a deep green color**, in all stages of its growth. The flavor is delicious, the flesh being unusually tender and crisp. It is an excellent shipping sort. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Talbys's Hybrid. Handsome, prolific. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.

Early White Japan. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

EARLY FRAME. Early, short, prolific, very largely used for growing pickles near Chicago. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

GREEN PROLIFIC or Boston Pickling. Enormously productive; one of the finest of pickles. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

Early Netted Russian. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 90c.

Nichols's Medium Green. A good sort for pickling and slicing. ALWAYS STRAIGHT AND SMOOTH. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.

NEW UPLAND CRESS.

This new vegetable has the identical and highly prized flavor of the Water Cress. It is so hardy as to be green nearly the whole year, and starts into growth and is ready for use before any other salad in the Spring. Can be eaten like lettuce or boiled as spinach. It is, doubtless, one of the best new and distinct vegetables of its class that has been offered for some years. It is of easy culture, thriving on any soil, wet or dry, and when once established remains, appearing regularly every spring, requiring no further care. Plants two years old will in the spring average $1\frac{1}{2}$ pounds of foliage per plant, or from 50 to 100 times more than Water Cress, growing bush-like 15 inches high, by 1 foot in diameter, will last from the first to the last of April. In May it runs to seed which

Culture. For early use sow in hot-houses on small sods overturned, or in small pots plunged in earth. As soon as danger from frost is over transplant with sod, so as not to disturb the plants, into hills in the open ground. For general crop sow from about the first to the middle of May in rich, mellow, warm soil. Use a shovel-full of well-rotted manure in each hill and cover it 2 inches deep with fine earth. On this sow the seed, about 8 or 10 seeds to a hill; cover $\frac{1}{2}$ inch with earth and press down. When danger from bugs is passed thin out to four plants to a hill. For pickles plant from June to middle of July. Always pick the fruit when ready even if not needed, since otherwise the productiveness of the plant is destroyed. 1 oz. of seed will plant about 50 hills.

Use Slug Shot for the Bugs.

ARLINGTON WHITE SPINE.

A remarkably fine strain, growing very even in size and regular in form. It is especially recommended to market gardeners from the fact that the first set on the vines is unusually even in form and size, and continue so through the season; retains its color longer than any other. This variety is used extensively by Southern truckers. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 90c.

PARISIAN PROLIFIC PICKLING.

New and very desirable. This new French sort promises to be a great acquisition. The fruit is very long, slender, cylindrical, deeply covered with fine prickles, and deep rich green in color. The flesh is very crisp and tender, making it one of the best for slicing as well as for pickles. The vine produces its fruit in clusters, and is enormously productive. This should receive universal trial. Pkt., 10c.; 3 for 25c.; oz., 50c.

IMPROVED LONG GREEN. Produced by selection from the Long Green. Vines vigorous and productive, forming fruit fit for the table nearly as early as the shorter sorts; fruit about twelve inches long, firm and crisp, with very few seeds. The young fruit makes one of the best of pickles, and when ripe is the best of any for sweet pickles. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

Giant Pera. One of the largest long green Cucumbers, in cultivation. Skin perfectly free from spines, flesh clear crisp and white. Pkt., 5c.; oz., 20c.

Chinese Long Green. A very fine sort, but little known and cultivated and worthy of special recommendation. The fruit grows 10 to 14 in. long. Flesh very white, thick and tender. Very productive. Pkt., 5c.; oz., 20c.

Small West India Gherkin. Used for pickling. Pkt., 5c.; oz., 15c.

Early Cluster. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Florida's Emerald. A new, medium early sort. It is perfectly cylindrical in shape, the flesh is crisp and tender; the skin is perfectly smooth and very dark green. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

Athens or Grecian. Extra table sort; long green. Pkt., 5c.; oz., 15c.

Goliath. An enormously large Cucumber, growing from 20 to 24 inches in length, is of handsome appearance, dark green, straight, the meat is thick, crisp and of excellent flavor. For frame and outdoor culture. Pkt., 10c.; oz., 50c.

Serpent or Snake Cucumber. A great curiosity. The Cucumbers grow curled up like a snake, and often to six feet in length. Pkt., 10c.

FORCING OR FRAME CUCUMBERS.

Rollison's Telegraph. Grows from 14 to 16 inches long, is of a bright green color, perfectly smooth, flesh solid and of excellent quality. Pkt., 25c.

Noa's Forcing. A most excellent sort, very prolific. Pkt., 25c.

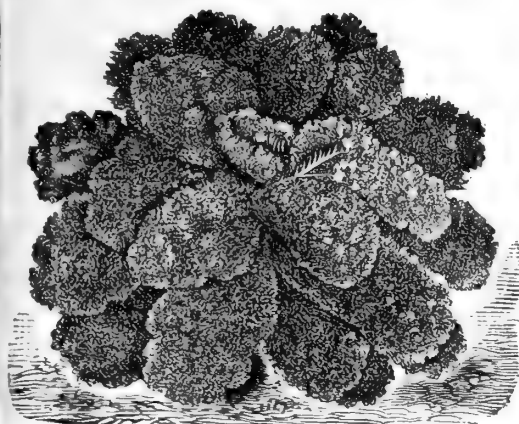
ripen in June. After the seed stocks are matured and removed, it puts forth new foliage, again growing until stopped by hard freezing. No other vegetable yields two crops each season. Seed should receive same treatment as celery; when of suitable size transplant 12 by 15 in. Pkt., 5c.; $\frac{1}{4}$ oz., 30c.

CRESS OR PEPPER GRASS.—GARTEN-KRESSE.

Culture.—Sow thickly in early Spring in drills one foot apart, and follow every two weeks with a new sowing, as it quickly runs to seed. Water Cress should be sown along the margins of ditches, ponds, or better still, of slow running streams. It requires no care except to free it at first from weeds.

Curled Garden.—Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Water Cress. Used as a salad or raw. Pkt., 10c.; 3 for 25c.



DWARF GREEN CURLED KALE.

EGG PLANT.—EIERFRUCHT.

Culture.—Sow the seed in a hot-bed in March or April. When about 3 inches high pot the plants and plunge in earth; transplant to open ground in May or June, according to the warmth of the season. Uniform heat is essential to this plant, and it rarely recovers from the least chill in its early growth. Set out, according to richness of soil, 2 or 3 feet apart each way. One ounce of seed makes 2,000 plants. (See also plants offered in our Vegetable plant list.)

NEW YORK IMPROVED LARGE PURPLE.

The leading market sort; very large and smooth, fine dark color; very prolific and of excellent quality, smooth and without thorns. We have a very fine strain of this sort. Pkt., 10c.; oz., 50c.; ¼ lb., \$1.50; lb., \$5.00.

Black Pekin.—Fruit round; almost black; flesh white; very solid; fine grained and delicious; very early and almost as large as the later sorts. Pkt., 10c.; oz., 40c.; ¼ lb., \$1.25; lb., \$4.00.

Very Early Dwarf.—Earliest of all, it resembles the New York Improved in shape and color; is smaller and earlier; valuable for northern sections. Pkt., 5c.; oz., 30c.

ENDIVE.—ENDIVIEN.

Culture.—For early use sow about the middle of April, but for the main crop in June or July in shallow drills. When two or three inches high transplant or thin out to one foot each way. When full grown blanch the inner leaves by gathering and tying up the outer ones at the top; but tie up only when the leaves are dry and blanch in succession, as it keeps only a short time after blanching. For winter use take up with earth and plant closely in frames or a dry cellar. One ounce of seed sows 150 feet drill.

GREEN CURLED SUMMER.—A fine market sort; for early use. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Green Curled Winter.—Tender green leaves, blanch white, hardy. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

MOSS, VERY FINE CURLED.—Tender, fine quality, ornamental. Pkt., 5c.; oz., 20c.; ¼ lb., 65c.

Broad-leaved White.—Leaves large, broad and slightly curled; tie up for blanching. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Ever White Curled.—Large leaves, pale green, crisp and tender. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

GOURDS.—ZIER KUERBISSE.

DISHCLOTH GOURD.—This remarkable plant derives its name from the peculiar lining of its fruit which is of a spongy, tough and very durable texture, which renders it very valuable as a natural dishcloth. Pkt., 5c.

SUGAR TROUGH GOURD.—They grow to hold from 4 to 10 gallons each, have thick, hard shells, very light, but durable, having been kept in use as long as ten years, and are useful as baskets, etc. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

DIPPER GOURD.—Valuable for house-hold purposes. They make dippers of various sizes, which will last for years. If the vines are trained on trellises the handles will grow straight, otherwise they curve. Pkt., 5c.

WHITE NEST-EGG.—Also called JAPANESE NEST-EGG GOURD, resembles in color, shape and size, the eggs of hens, and do not crack, and are uninjured by cold or wet, and therefore make the best nest-eggs. Pkt., 10c.; 3 for 25c.



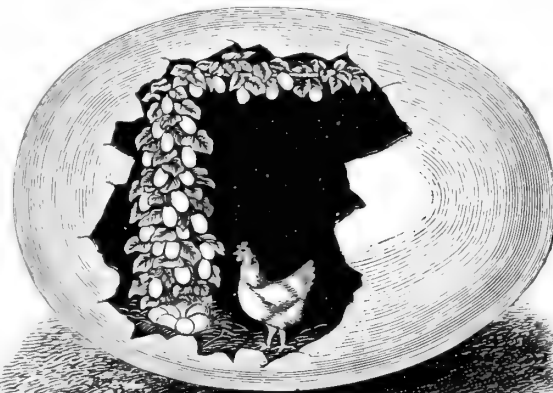
NEW YORK PURPLE EGG PLANT.



VERY EARLY DWARF EGG PLANT.



GOLIATH KOHLRABI.



NEST EGG GOURD.



CURLED ENDIVE.

GARLIC.—KNOBLAUCH.

Culture.—Garlic sets should be planted early in Spring in a light, rich soil in rows one foot apart from 3 to 5 inches apart in the rows. Cultivate like onions.

Garlic Bulbs.—¼ lb., 15c.; lb., 30c.; not prepaid, 10 lb., \$1.50.

HORSE RADISH.—MEER-RETTIG.

If to go by mail, add 12c. per 100 for postage.

Horse Radish Sets.—Doz., 15c.; 100, 75c.; 500 for \$3.00.

HERBS.

Varieties with an * are perennials.

	pkt. oz.		pkt. oz.
Anise.....	5 10	*Lavender.....	5 25
*Balm.....	5 25	*Pennyroyal.....	10
Bene.....	5 15	Pot Marigold.....	5
Bohnen Kraut.....	5 15	*Rosemary.....	5 50
Borage.....	5 15	*Rue.....	5 15
*Caraway.....	5 10	Saffron.....	5 15
Catnip or Catmint.....	5 40	Sage (lb., \$1.25).....	5 15
Coriander.....	5 10	Summer Savory.....	5 15
Dill.....	5 10	Sweet Basil.....	5 15
*Fennel.....	5 15	Sweet Marjoram.....	5 15
*Henbane.....	5 20	*Tarragon.....	5 15
*Hop.....	10	*Thyme (lb., \$3.00).....	5 30
*Horehound.....	5 35	*Winter Savory.....	5 20
Hyssop.....	5	*Wormwood.....	5 20

KALE OR BORECOLE.

GRUEN-KOHL.

Culture.—The Kales are excellent as greens for Winter and Spring use. The crown or centre of the head cut off so as to include the leaves is the eatable part. They are more hardy than Cabbage, and are improved by frost, but the time and manner of sowing, and the culture are identical with Cabbage.

Dwarf Green Curled.—Very hardy; leaves numerous, long, of deep green color, frilled and of excellent quality. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Tall Green Scotch.—Finely curled; one of the best sorts. Is more tender after being touched by frost. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Tall Tree Kale.—Bright green; curled, hardy. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 90c.

SEA KALE. is only useful after bleaching. The midrib is the part used. Plants started in hot beds in the Spring are fit for blanching one year earlier than seed sown early in Spring in open ground.

Sea Kale.—Shoots are cooked like Asparagus. Pkt., 10c.; oz., 30c.; ¼ lb., \$1.00.

KOHLRABI.—OBER-KOHLRABI.

Culture.—This is seemingly an intermediate between cabbage and turnip, has value both as a table delicacy and for feeding stock. The edible part is the enlarged stem just above the surface of the ground, which is in prime condition only when half grown. The full grown bulb is tough and stringy. For early use sow in hot-bed, transplant and cultivate like early cabbage. For winter use sow the middle of June or first of July in rows, 18 inches apart, thin out to 8 inches in the row.

SHORT TOP EARLY ERFURT.—Excellent for forcing and open ground; flesh white and very tender, leaves very short. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.

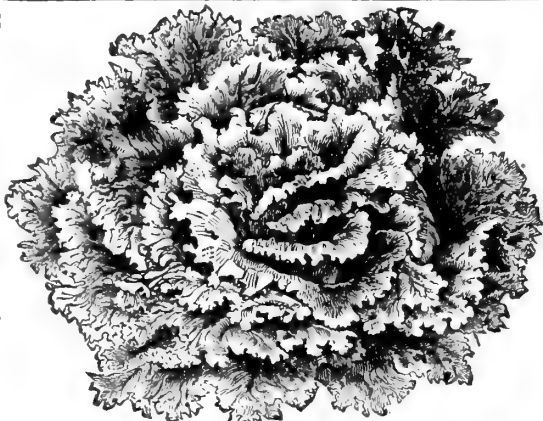
Early White Vienna.—White; tender. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.

Early Purple Vienna.—An excellent sort. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.

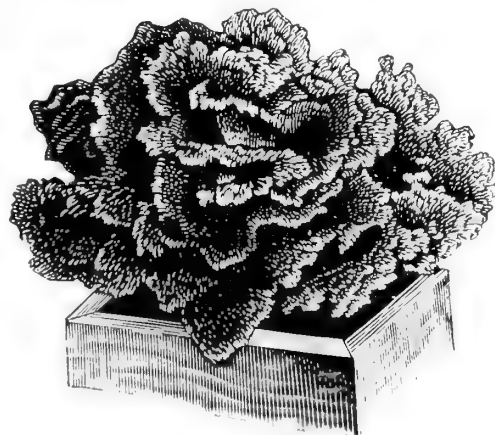
GOLIATH PURPLE.—An extra large variety used extensively for feeding cattle and sheep in winter, and excellent vegetable for the table before fully matured. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.



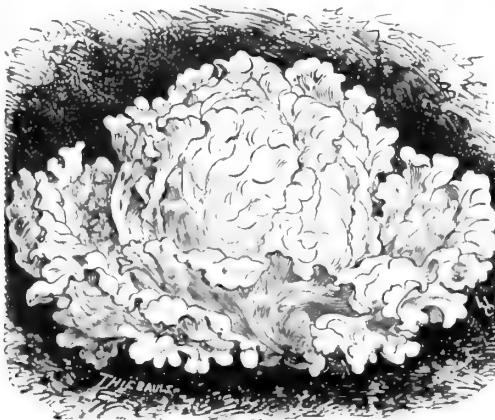
LARGE MUSSELBURGH LEEK.



GRAND RAPIDS FORCING.



BLACK SEEDED SIMPSON.



NEW BLONDE BEAUTY.

LETTUCE.

Culture.—Lettuce, the most useful of all the salads, is easy of culture, being free from all diseases and insects. It requires rich, moist soil, clean cultivation and plenty of water. This will give the quick growth on which depends its appearance, tenderness and flavor. For early spring use, sow in a seed-bed in September or October, and protect through the winter with cold frames, or in the South with leaves or litter; or sow in hot-bed in early spring, and as soon as the ground can be well worked, transplant in good, rich ground to rows, 18 inches apart, and 8 to 10 inches in the rows.

CURLED VARIETIES.

GRAND RAPIDS FORCING.

THE BEST SORT FOR GREENHOUSE FORCING.

THIS grand new forcing variety has been raised in the vicinity of Grand Rapids for a number of years where it has been jealously guarded by the few gardeners who had the true stock, enabling them to secure the highest prices for forced Lettuce. It is the result of fifteen year's selection from the Black Seeded Simpson, and the result is a Lettuce far superior to its parent. *It stands more neglect in the way of watering and ventilation, will grow more weight on the same ground and will stand longer after it has matured.* It does not grow quite so rapidly as Black Seeded Simpson, but is superior in every other respect. It is of handsome appearance, a strong grower, very crisp and tender and not apt to rot and will keep from wilting longer while exposed for sale than any other sort. *The seed we offer is the true sort grown from seed obtained from the originator.* Pkt., 10c.; ½ oz., 30c.; oz., 50c.; ¼ lb., \$1.50; lb., \$5.00, by mail, postpaid.

BLACK SEEDED SIMPSON.

This is by far the most popular sort among the Chicago gardeners. It forms a large, loose head of a yellowish green color, the leaves are large, thin, very tender and of very good quality. *It is one of the best sorts for the frame or hot-house, as well as for early out-door planting.* Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

CHICAGO FORCING.—This is one of the best early market sorts under glass; it is of quick growth, the leaves are crisp, tender and of very pleasant flavor. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Early Curled Silesia.—One of the earliest for out-door planting; leaves bright green and very sweet. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

EARLY CURLED SIMPSON—More curled than the Black Seeded Simpson; does not head, but forms a compact mass of leaves. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Boston Curled.—Very handsome. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Oak-Leaved.—Leaves light green, oak-shaped, tender, somewhat bitter. Pkt., 5c.; oz., 15c.

GREEN FRINGED.—It is of a light green color with the inner leaves nearly white, most beautifully fringed; highly ornamental. Fine for family use. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

CABBAGE OR HEAD VARIETIES.

NEW BLONDE BEAUTY.

A New Summer Lettuce of a bright golden tinge and attractive form. It resists the heat to a remarkable degree, and is also an excellent keeper after being cut; is tender, crisp, sweet and juicy when many sorts have become tough and bitter. It is a distinct sort and one which we can recommend as a superior sort for shipping and the home garden. Pkt., 10c.; 3 for 25c.; oz., 40c.

RUDOLPH'S FAVORITE.

A new and distinct sort which is worthy of general cultivation. It forms a *very firm, handsome head* of good size, while the leaves are of a bright greenish yellow, well curled, tender and of delicate flavor. The heads are so solid that they very often do not produce any seed stalks. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Golden Stonehead.—It forms very large heads, larger than Tennis Ball. *It is unsurpassed for forcing*, and equally valuable for open ground. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.40.

STUBBORNHEAD.—Very solid head, and is slow running to seed. Pkt., 5c.; oz., 15c.

Ferry's Prize Head.—A good home garden sort; hardy and of good flavor; very slow to run to seed. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.15.

Buttercup.—A very attractive Cabbage Lettuce of large size, crisp and tender, delicate in flavor and very desirable for either Winter or Summer use, as well as for forcing. Forms a fine large solid head, and is remarkable for the citron-yellow foliage. Pkt., 5c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.00.

Brown Dutch.—Hardy; large and solid; sweet and tender. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.

Tomhannock.—An entirely distinct sort. Pkt., 5c.; oz., 25c.

WHITE CABBAGE.—Forms fine, solid greenish-white heads; very tender, and withstands the heat extremely well. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Hubbard's Market.—Medium size, round, solid. Good for forcing or out-doors. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.40.

Chartier Pink.—The leaves curl much like the Simpson; it attracts most attention from its beautiful pinkish color, while its table quality is first-class. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Grey or Yellow Seeded Butter.—Heads large, solid and yellow, crisp, tender and of good flavor. Slow seeder. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

The Deacon.—An excellent sort for early use and for summer, heads are large and very solid, crisp and tender. Pkt., 5c.; oz., 10c.; ¼ lb., 35c.; lb., \$1.25.

Perpignan or Defiance Summer.—Unequaled for long standing. One of the finest new varieties of Head Lettuce, which stands the summer heat better than any other. It forms very large, solid heads, so firm that they have to be cut open to allow the flower shoots to come through. The leaves are light green. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; ½ lb., 35c.; lb., \$1.60.

Marblehead Mammoth Cabbage.—The heads are closely wrapped together. The leaves are lightish-green. Second early, free from bitterness. Pkt., 5c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.00.

Improved Hanson.—Forms very large, firm heads, resembling a cabbage, which are deliciously sweet, crisp and tender; heads green outside and white within; for out-door culture unexcelled. It is one of the best heat-resisting sorts. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

HENDERSON'S NEW YORK.—Pkt., 5c.; oz., 15c.; ¼ lb., 50c.

BLACK SEEDED TENNIS BALL.—Very early; forms a firm close, dark green head; leaves crisp, tender. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.10.

SALAMANDER.—One of the best sorts for summer use; forms very solid heads of yellow color, and withstands summer heat extremely well. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.10.

WHITE SEEDED TENNIS BALL, or Boston Market.—A fine early sort, small heads, valuable to grow in cold frames in winter. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Paris White Cos.—Very hardy, large and of good flavor. Pkt., 5c.; oz., 15c.



NEW PERPETUAL LEEK.

☼—LEEK. ☼

Culture.—Plant the seed in April, in drills one foot apart and one inch deep. When six or eight inches high, remove the plants to deep, rich soil, setting them in rows twelve to fifteen inches apart in the rows, plant as deep as possible, and during growth draw the earth to them to blanch the stems. One ounce will produce about 2,000 plants.

BROAD SCOTCH, OR LONDON FLAG.—Hardy. A large, strong plant, with broad leaves. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

LARGE MUSSELBURGH.—Of enormous size, leaves large and broad. Of very mild, pleasant flavor. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$1.85.

Rouen, Very Large Winter.—Large and excellent; grows to an enormous size; best of all for forcing. Pkt., 5c.; oz., 20c.; ¼ lb., 65c.

NEW PERPETUAL LEEK.

This new vegetable comes to us from France where it has been raised for several years and is described as follows: The distinguishing features of this valuable sort are, that it throws up from **15 to 20 shoots; it is hardy**, living through the winter with little protection, coming up again the following spring. If the bunches are divided up and planted separately, each plant will form another bunch. Its flavor is identical with the other Leeks, but it goes to seed three weeks later. Pkt., 10c.; 3 for 25c.

MUSK MELONS.

OUR WESTERN VINE SEED IS THE BEST IN THE WORLD.

Culture.—A rich, warm sandy soil is best for the Musk Melon. Plant the seed when the ground is warm. Plant from 6 to 12 seeds in hills 6 feet apart each way, and when danger from bugs is past, thin to three vigorous plants in a hill. If manure is mixed in the hill at time of planting, see to it that it is old and well rotted. When the shoots are a foot long pinch off the tips to make them branching and strengthen the vine. Thin out the fruit if it is excessive, the remaining Melons will thereby increase in size and ripen earlier. One ounce plants 75 hills.

CHICAGO MARKET MUSK MELON.

THIS deservedly popular variety, which we first sent out has been steadily growing in favor since, and holds its own against all Melons in the market, with the possible exception of the Osage; it is a great favorite with all who prefer a green fleshed variety. It has been carefully selected and improved by Mr. A. Colvin, one of the most successful market Melon growers near Chicago. Every year the Melons for seed have been most carefully selected, for the following points: Earliness of maturity, large and uniform size, thickly netted skin, small seed cavity, deep green flesh, juicy and delicious flavor and freedom from rot. The result of this careful selection is evinced in the practical monopoly which this variety has maintained in the Chicago market for a number of years. **WE CONSIDER IT THE BEST NUTMEG** and recommend it to all lovers of this delicious fruit. Our selected seed has been taken from earliest Melons, worth \$3.00 per dozen, and the supply is limited.

"SELECTED SEED," (from originator, selected as above.) Pkt., 10c.; oz., 25c.; ¼ lb., 85c.; lb., \$3.00.

"ORDINARY SEED," (grown from the originator's stock.) Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

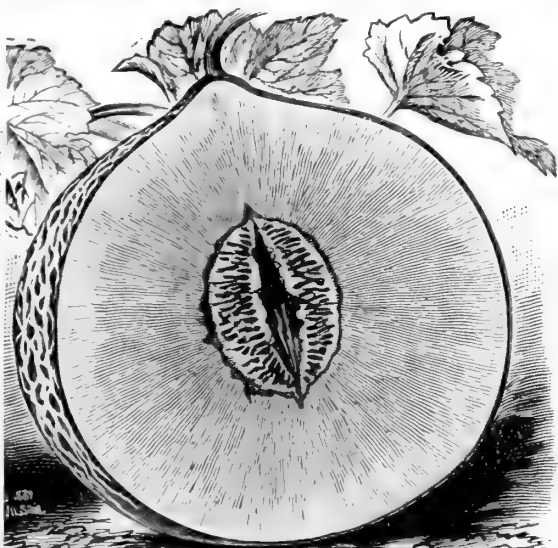
ABINGDON ILL., Nov. 20, '90.—Chicago Market Melon very nice. SABINA KAYS.

WINTER PINE APPLE MUSK MELON.

This is of a decidedly distinct appearance, the outside skin being deeply corrugated as will be seen in the engraving which also shows the thickness of the flesh and small seed cavity. The flesh is light green, melting and of a rich aromatic pine apple flavor. **But the most remarkable and valuable feature of this new Melon, is its wonderful keeping qualities.** They do not ripen on the vines as other Musk Melons, but are picked before hard frost and laid away in a cool, dry cellar, where they will keep sound and sweet for months. When wanted for use they must be brought into a warm room, where they will ripen up in a few days. These qualities will enable market gardeners to supply both families and restaurants and hotels with **most delicious Melons all winter.** Pkt., 20c.; 3 for 50c.; 7 for \$1.00.

THE—BANQUET.

HENDERSON'S.
A new medium sized Melon, very flat at both ends and more beautifully netted than any other variety. In quality it is unequalled; the flesh uniformly deep, color dark rich salmon. It is undoubtedly one of the most beautiful and luscious Melons, and will produce more edible Melons to a given area than any other variety. We offer the introducers' Pkts. for \$1.00.



NEW PINE APPLE MUSK MELON.

☼—MANGO MELON. ☼

Vegetable Peach, or Vine Peach.—This peculiar new vegetable grows on a vine like a melon, and is of golden yellow color, resembling an orange in shape and size; the flesh is snow-white. They are used fried like Egg Plant when green. They also make splendid mangoes stuffed with cabbage like peppers. When they first ripen they are quite hard and tasteless, but they soon become mellow and sweet and have a very rich flavor. For sweet pickles, pies or preserving, they have no equals. They are very early, hardy and productive, the vines being literally covered with fruit. You should try them, and we know you will be pleased with them. Full directions for cooking on each packet. Large pkt., 10c.; 3 for 25c.

MARTYNIA.

This is cultivated for its seed pods, which, when half grown and tender, are much esteemed for pickling. Sow the seed in May or June in open ground three feet apart each way. Thin to one plant in a hill. Pkt., 5c.; oz., 30c.; ¼ lb., \$1.00.

MUSTARD.—SENF.

Culture.—A desirable spring salad. Sow as soon as the ground is free from frost, and successive sowings should be made every two or three weeks. It grows rapidly and must be cut down when young. Sow in shallow drills one foot apart, and when three inches high thin out to five or six inches apart.

White.—Best for salad and general use. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

Brown.—Stronger and more pungent than white. Pkt., 5c.; oz., 10c.; lb., 40c.



CHICAGO MARKET, FROM A PHOTOGRAPH.

THE PRINCESS.

A distinct Melon and one of the best both for market and the home garden. They are nearly round, skin dark green, thickly netted; flesh salmon, very thick and of excellent flavor. They ripen early and grow to weigh about ten pounds. This Melon was introduced several years ago and while we did not find it in our trials to equal the Osage, we can recommend it to our customers as an extra good sort. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

EARLY HACKENSACK.

This is a selection of the old Hackensack which it resembles in shape and appearance, but is **fully ten days earlier.** The Melons weigh from four to ten pounds and are of excellent flavor. It is the **best as well as the earliest** of all the netted Musk Melons. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

IRONDEQUOIT.

A Melon of exquisite flavor, juicy and melting. The fruit is large, 12 to 15 inches in diameter, round and ribbed while the skin is of a peculiar light grayish color and netted; the flesh is orange and very thick. This Melon is well worth a trial. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.60.

DEL MONICO.—An oval shaped Melon of large size, finely netted; flesh beautiful orange pink. It is claimed to be the most delicious flavored Musk Melon ever introduced. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

Netted Gem.—Globe shaped, skin green and thickly netted; flesh thick, light green, of fine flavor. One of the best. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Early Nutmeg.—Green fleshed; highly scented, rich and sugary, skin green and finely netted. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Baltimore.—A very productive, oblong sort, of large size, ribbed and heavily netted. Flesh thick, light green and of good flavor. A good shipper. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Montreal Market Nutmeg.—A large Melon, nearly round, deeply ribbed; flesh remarkably thick, light green, of delicious flavor. The Melons grow to very large size, often weighing 15 to 20 pounds. It is a sure, heavy bearer, does not lose flavor during wet and cool spells. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

IMPROVED CHRISTIANA.—The flesh is a dark rich yellow, very thick and of delicious flavor. When ripe the Melons separate from the stem. They mature early. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Extra Early Nutmeg.—(Also called Early Citron.)—Market gardeners who want the first sales will find this EXTRA EARLY decidedly profitable. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Large Boston Nutmeg.—An extra large strain of the green fleshed and netted skinned nutmeg; a good one. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

White Japan.—Early, medium sized, roundish, prolific sort, flesh thick, greenish white. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Surprise.—Early, very productive; like White Japan, but larger; flesh thick, salmon colored. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 70c.

Bay View.—One of the largest Musk Melons in cultivation, very prolific; light green flesh, very thick and sweet. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.



THE OSAGE MUSK MELON.

When we first secured and offered this Melon to the public we paid the highest price per pound ever given for a crop of Melon Seed, so far as we know. Every Melon used for seed was taken from the choicest specimens in a field of 50 acres, and no seed saved from Melons that did not prove solid and deep meat on all sides when cut; a test which we believe we were the only ones to put into practice and pay for on a large scale. The result is that we have secured the most even, distinct and valuable type of the new Melon which care could produce and money procure. The great popularity of the Melon is due in a large measure to this care and attention given to our Selected Strain. Dealers could contract at one-tenth of our price by saving seed of the entire crop of the Melon, large or small, good or bad, and had no hesitancy in claiming such product to be the best Osage in the market. Succeeding years have only added to the popularity of this strain of Musk Melon, and we believe the demand in 1891 will equal or exceed that of any other known standard kind, and we wish to emphasize here the facts stated above, that the care and attention given to our celebrated strain of this seed is the cause of its distinctness and consequent large demand from consumers.

Buy from us and you will get the genuine.

OSAGE MELON.—Skin dark green, slightly netted on the lobes on the upper side, and on the best specimens a rich orange color where the Melon lies on the ground, and on this side it is eatable within an eighth of an inch of the surface; flesh a rich salmon color. The shape is pointed oval—egg-shaped most exactly expresses it—medium sized, and the whole crop is very even and extra heavy, owing to thickness of meat; no Melons can equal it in this respect, not even the Hackensack.

Selected Stock Seed.—Pkt., 10c.; per oz., 60c.; 1-4 lb., \$2.00; 1 lb., \$7.50.

Ordinary Seed, raised from original stock. Pkt., 5c.; oz., 10c.; 1 lb., 30c.; lb., \$1.00.

Our trade mark herewith will be found on packages of the genuine.

ATKINSON, ILL., Oct. 28, '90. The Osage Melon I consider a very fine variety, thick-meat and sweet.

HARRY MUSSEY.

HAMPSHIRE, ILL., Nov. 3, '90. The Osage was the very best Musk Melon ever tasted. Nearly every one was of fine quality.

H. GILKERSON.

OSKOSH, WIS., Oct., '90. The Osage Melons are very good and sell well.

H. D. BALLARD.

WHITEWATER, WIS., Oct., '90. The Osage Melon is all that you claim for it. Its appearance upon the table is highly inviting, words cannot overstate its delicious flavor.

T. M. WATSON



WEST RIVER, Md., Sept. '90. Of the Osage Musk Melon, too much can't be said. It is the most delicious grown.

MINERAL POINT, WIS., Oct. 23, '90. The Osage Melon is superior to anything I have ever grown. Seems well adapted to the climate. I picked perfect Melons as late as the 12th of this month.

W. P. GUNDRY.

Champion Market.—It is almost a perfect globe in shape and densely netted, the flesh thick, light green in color and of very rich, sweet flavor. It is nearly as early as the Netted Gem which it resembles in shape and appearance, but is fully THREE TIMES LARGER; very productive and a good shipper. Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 85c.

Emerald Gem.—The flesh is of a delicate light salmon color, very thick and of most excellent flavor. The rind is thin and dark green. While it is not as good a shipper as the Osage, it is undoubtedly one of the very best for home use. Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; lb., \$1.25.

Hackensack.—Grows uniformly large, round, sweet, productive; skin and flesh green, for market and private use. Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

Casaba.—Fine flavor; green, thick flesh. Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

Skillman's Netted.—Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

Ward's Nectar.—A green fleshed variety of fine quality, extremely sweet and delicious. Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 80c.

Improved Canteloupe.—A first-rate early, large round market sort, sweet and of good flavor. Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

Miller's Cream.—The flesh is a rich salmon in color, so thick it is almost solid; THE FLAVOR IS VERY SWEET AND DELICIOUS; THE SEED CAVITY IS USUALLY SMALL; the rind is very thin and little netted; and the vines are strong-growing and productive. It resembles our Osage, but we find our strain of the latter liable to burst (which the Miller's Cream sometimes does in a wet season,) and a better netting for shipping with larger size. Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; lb., \$1.25.

Vick's Ex. Ey. Prolific.—A nutmeg. Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 85c.

Jenny Lind.—Excellent quality, early, small, flattened at the ends, flesh green. Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

Golden Gem or Golden Jenny.—Productive, early, very uniform in shape; flesh very thick, green; fine flavor. Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

Banana.—Long banana-like fruit. Pkt., 5c.; oz., 15c.

Bird Canteloupe.—They have been grown to weigh 22 pounds. The flesh is thick, light green and fine quality; quite early and a splendid keeper.

Pkt., 5c.; oz., 10c.; 1/4 lb., 30c.; lb., \$1.00.

WHITEWATER, WIS., Oct. 30, '90. Chicago Market Musk Melon stands far ahead of all the green fleshed varieties, and there are not many kinds that I have not tried.

T. M. WATSON.

MUSHROOM SPAWN.

CHAMPIGNON-BRUT.

Culture.—In preparation for a Mushroom bed, procure fresh horse manure, free from litter or straw, and old pasture soil. Mix thoroughly in proportion of three parts horse manure to one of loam. Turn daily until the extreme heat is out of it. Then in some sheltered place, if possible, make out of this compost a bed four feet wide, eight inches deep and as long as desired, pressed solidly. Leave this until the heat subsides to 90 degrees, then plant pieces of spawn the size of a walnut in holes two or three inches deep, six apart each way; cover with the compost, and in the course of a week or ten days the spawn will be diffused through the whole bed. Now cover with two inches of fresh soil, and over this spread three or four inches of hay, straw or litter. If the surface becomes dry, wet with lukewarm water. Keep an even temperature of 50° to 60°. One pound will sow two by six feet.

One pound Bricks, English spawn, each 25c.; (to lbs., not prepaid, \$1.20.)

Two pound Boxes, French Spawn, each 50c. French Spawn, loose, per lb., 35c.; by mail 50c.

Robinson's Mushroom Culture.—A book bound in cloth, giving directions in how to prepare a Mushroom bed and raise Mushrooms. Price, by mail, 55 cents.



EDIBLE MUSHROOM.

NASTURTIUM.—INDIAN CRESS.

Culture.—A very ornamental climber, much cultivated for the green seed pods, which make very delicate pickles. The leaves are also used for salad.

Tall.—Very pretty vine. Pkt., 5c.; oz., 20c. (See also list of flower seeds.)

OKRA, or GUMBO.

Culture.—Sow in May, in hills or drills, three feet apart. If in hills, thin out to three plants; if in drills, to 10 inches apart in the drills. Seed thickly and cover one inch deep. The young green seed-pods are used for soups or like Asparagus. The seeds are sometimes used as a substitute for coffee. One ounce of seed sows twenty-five feet of row.

Dwarf.—Early and prolific. Pkt., 5c.; oz., 15c.; 1/4 lb., 50c.; lb., \$1.75.

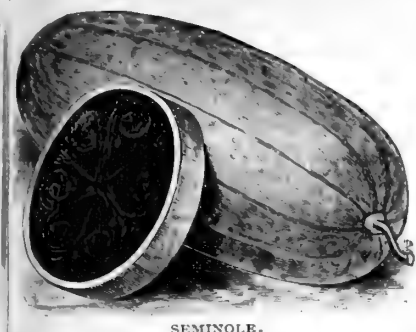
Tall.—Five to six feet. Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; lb., \$1.25.

New Velvet.—The pods are round and smooth, not rigid as in all the other sorts; besides this, they are much larger; never prickly, and produced very abundantly. Pkt., 5c.; oz., 15c.; 1/4 lb., 50c.; lb., \$2.00.

TECUMSEH, NEB., Feb. 28, '90.—Many thanks for your liberal extras; all other seedmen when they give presents give very small packets. Yours are large, regular size packets and ounces.

A. GAISER.

IF YOU HAVE NO USE for this valuable catalogue, we request you to give or send it to some flower-loving person of your acquaintance, or to RETURN TO US. Kindly advise us of any change in your address. Very truly, VAUGHAN'S SEED STORE, Box 688, Chicago.



SEMINOLE.

WATER MELONS.

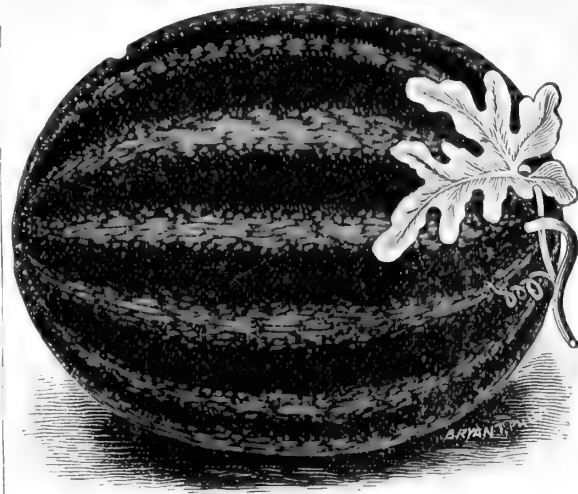
ALL MELON SEEDS IN 5-LB. LOTS, 15 CENTS LESS PER LB., NOT PREPAID.

Prices below include postage.

Culture.—In light soil, with a hot, sunny exposure, the Water Melon thrives best. Plant in hills 8 to 10 feet apart each way, and cultivate like the Musk Melon. To secure the largest fruit, have but one or two Melons to a vine. One ounce of seed will plant about 60 hills.

◎ THE DIXIE. ◎

In this we have a new Water Melon of excellent merits and we can recommend it to our customers as the **best shipping**



JUMBO.

◎— RUBY GOLD. —◎

In shape these new Melons are long, often two feet or more, they weigh from forty to fifty pounds; flesh is solid, pure golden yellow, variegated with streaks and layers of bright pink. It is of most delicious flavor and melts in the mouth like ice cream without a particle of core or stringy substance. Pkt., 10c.; ½ oz., 25c.; oz., 40c.; ¼ lb., \$1.25; lb., \$4.00.

—◎ JUMBO. ◎—

The shape is round, color green with faint lighter stripes; deep red meat, surpassing all other varieties as much in flavor as in size, and as a market Melon sells more rapidly and for higher prices. They grow to weigh eighty pounds—from 40 to 60 pounds is common. Wagon loads have averaged fifty-five pounds each. It is an extra good Melon for shipping, being much superior to Kolb's Gem. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

—◎ KENTUCKY WONDER. ◎—

One of the finest flavored Melons, and one of the best for the market and the home garden. Oblong in shape, skin dark green, marbled in stripes of light green; flesh a sugary flavor, always firm, very solid and never mealy; seed red. Attains an average weight of 40 to 60 pounds. The best all-round Melon for home and market yet introduced. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.15.

HUNGARIAN HONEY.

This variety has proved to be the richest and sweetest flavored of all Water Melons. The Melons ripen early, the vines are healthy and productive. It grows to weigh from 8 to 10 pounds, and almost globular in shape; the color of the skin is dark green. The flesh is deep red, stringless, and of the sweetest honey flavor, richer than any other Water Melon grown. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

WHITE GEM (Burpee's).—The fruit is perfectly round, average about 20 lbs.; skin cream-white with a few slight green stripes and very tough but thin. Flesh rich, bright pink, crisp, melting, juicy and delicious. Pkt., 10c.; oz., 25c.

Pride of Georgia.—Dark green, oval, a good shipper. Attains a large size. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

CUBAN QUEEN.—A very fine variety, growing to great size, flesh bright red, solid and sweet; the skin is beautifully striped dark and light green. The Melons are wonderfully solid, and their rind is usually thin. They are enormously productive and ripen early. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Ice Cream.—White seeds, scarlet flesh; early, medium size, thin rind, fine variety for family use. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Black Spanish.—Large, round, very sweet, scarlet fleshed, skin dark green, black seeded. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 75c.

Sculptured Seeded Japan.—Pkt., 5c.; oz., 10c.; ¼ lb., 35c.; lb., \$1.00.

MAMMOTH IRONCLAD.—Of immense size, handsomely marked, oblong in shape, flesh bright red and very solid, heart large and flavor delicious. The rind, while very thin, is remarkably hard. It matures early and keeps well. Under average cultivation they will weigh from 50 to 70 pounds each. These qualities, together with its uniform heavy yield, combine to render it one of the very best for market and shipping. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Dark Icing.—Round, solid, white seeded, dark skinned; medium size, of delicious flavor; a fine shipper. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Long White Icing.—The best. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Rattlesnake.—Large; shape long; rind thin; flesh bright red; skin striped; excellent market sort; good shipper. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Gypsy Striped.—Large and prolific. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Boss.—Early, flesh deep scarlet, of rich flavor, oblong in shape, and nearly the same diameter throughout. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Citron.—For preserves; flesh white and solid, seeds red. ¼ lb., 15c.

COLORADO CITRON.—Immensely prolific, flesh very firm and solid making very clear, transparent preserves of excellent flavor; size large and preserving qualities the very best. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Scaly Bark.—Large size, remarkably good shipper, rind dark green, with scaly markings, thin and tough; flesh light crimson, solid and of fine flavor. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Samoth, Ill., Nov. '90. I have been so well satisfied with all my purchases from you and have advised all my neighbors to send you their orders. A. B. AGNEW.

Melon grown, being larger, earlier and far more productive than the Kolb's Gem which has heretofore been considered the best Melon for shipping. It is of a very fine appearance, being much darker green than Kolb's Gem and more beautifully striped; it is longer and extremely hardy, while its eating quality is unexcelled, being sweet, juicy and tender. Another very important point is its great productiveness, having six to eight large Melons on a vine. We have secured some of the genuine stock and can offer it at the following low prices: Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

• VAUCLUSE RED FLESH. •

This is one of the most promising of the many sorts lately introduced. It is of French origin, very early, and of large size, with stem end slightly inclined to point. The flesh is a bright crimson, very sweet, not in the least stringy and coming to within an eighth of an inch of the skin; the seeds are also red. The rind, though so thin, is very tough and the shell glossy, so that this Melon is an excellent shipper. It is of a dark color, beautifully threaded with a still darker green. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

◎ DELAWARE. ◎

They are of oblong shape, very thick through and nearly as thick at the stem as at the blossom end. The flesh is a bright red, and ripens within three-fourths of an inch of the rind; very solid, luscious and sugary, entirely free from strings and of excellent flavor. It is one of the best Melons for shipping and keeping. It grows to an enormous size, single Melons having attained a weight of over 100 pounds. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

◎ SEMINOLE. ◎

The numerous excellent qualities which this new Melon possesses will make it the most popular sort grown. It is extra early, enormously productive, very large and of splendid flavor. The seed will often produce grey and green Melons on one vine, but the number of the former predominates. It is undoubtedly one of the finest Melons yet introduced. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.10.

FLORIDA'S FAVORITE.

A new, medium sized, very prolific Melon for the home market if sold within teaming distance of where it is grown. It is highly praised by the originator, who is a great Melon grower. Price is moderate this season. Gardeners can afford to try its merits, which are of high order. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Green and Gold.—The flesh is beautifully granular in appearance, juicy and sweet, and of good flavor. The rich golden color, in addition to its flavor, will make it most desirable as an ornament for the table, especially if its golden slices are arranged with the crimson of the othersorts. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 90c.

GOODWIN'S EXTRA EARLY.—One of our old standard sorts, flesh crimson, quality extra fine; small, nearly round, and one of the earliest to mature. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.10.

VICK'S EXTRA EARLY.—A fine extra early sort, flesh bright pink, solid and sweet. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

PHINNEY'S IMPROVED.—Almost as early as Vick's Ex. Early, but more uniform in type. The Melons are of medium size, oblong, the flesh is bright red and very sweet. Very productive; an excellent market variety, seeds white. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

KOLB'S GEM.—It is uniformly round and grows to a good size, often attaining a weight of 50 pounds. Its flesh is bright red and flavor excellent; rind dark green, striped and very tough. It is an excellent shipping Melon, retaining its freshness and sweetness for a long time. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Oemler's Triumph.—Pkt., 10c.; oz., 50c.

Volga.—A distinct Russian sort; the skin is greenish white; perfectly round, and the inside very red and of excellent flavor; it is rather late and a good keeper. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Chinese.—The flesh is white, and has a peculiar flavor, not at all resembling that of a Melon, but much relished by the Chinese, who cook it as we do squash. Pkt., 10c.; 3 for 25c.

APPLE PIE.—When stewed and made into pies, is an excellent substitute for apples. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Gray Monarch.—One of the largest Melons grown; skin very light, mottled; flesh bright red and of excellent quality. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

JOHNSON'S CHRISTMAS.—A late keeping variety with very tough rind, stands shipping well. The flesh is of a rich scarlet, very solid and of delicious flavor. Seeds drab-white, and small. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

MOUNTAIN SWEET.—Early, solid, large, sweet and delicious. Rind dark green. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

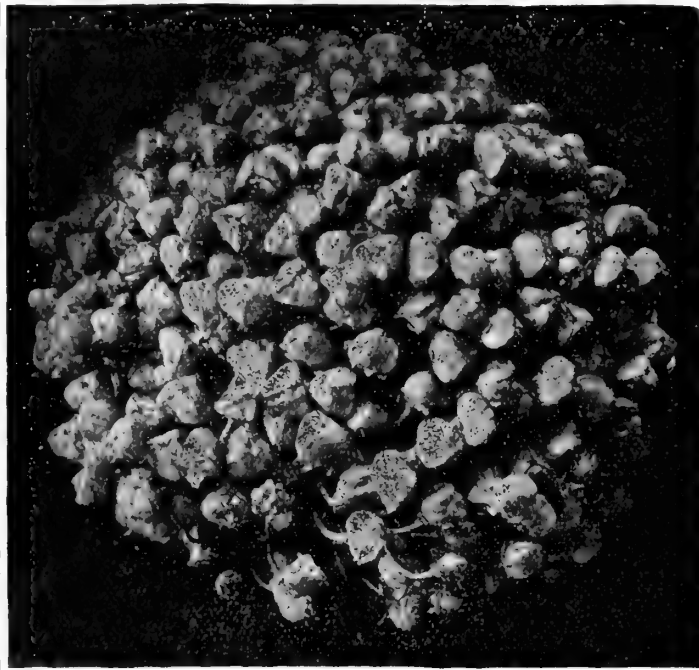
Mountain Sprout.—Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Ferry's Peerless.—One of the best for the home garden and market gardeners who deliver direct to consumers. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

HAMPSHIRE, ILL., Oct. 20, '90. Your Hungarian Water Melon has given me as much satisfaction as any. H. GILKERSON.

Crop of 1890. * PEDIGREE ONION SEED * Crop of 1890.

WE offer below the best Pedigree Onion Seeds from growers who select carefully each year their Seed Onions, and believe no better strains are grown. We sell only crop of 1890. We could easily purchase Onion Seeds that could be sold 30 to 40 per cent. cheaper, but believe that "cheap Onion Seed is always dear." **WE ARE HEADQUARTERS ON ONION SETS.**

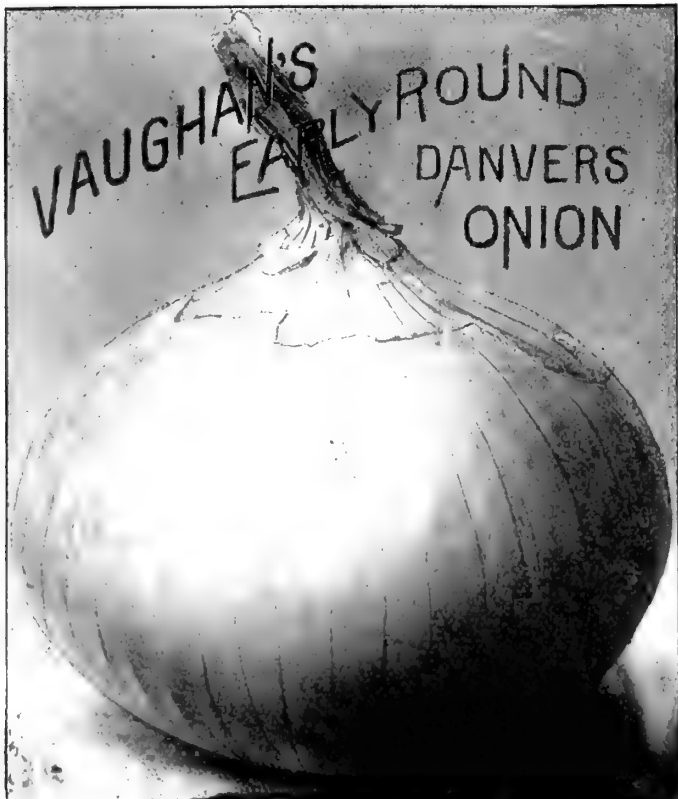


SEED HEAD OF EARLY YELLOW GLOBE DANVERS.

EXTRA EARLY FLAT RED.—A rapid grower: very early, and exceedingly fine quality; good where seasons are short. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.60.

YELLOW STRASSBURG. (Yellow Dutch).—Later, flatter and larger than yellow Danvers; good keeper. Pkt., 5c.; oz., 10c.; ¼ lb., 35c.; lb., \$1.15.

EXTRA EARLY RED. (Wethersfield).—An early, thick red onion, a little later than "Early Flat Red," and earlier than Red Wethersfield, better for short seasons. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.65.



W. H. HOLMES, a practical Onion grower for fifty years, says: "Time but deepens the conviction that the frequent failures in raising this crop are the result of avoidable causes; all, but the variations of the seasons, being controlled by man, who by the selection and preparation of soil, the judicious application of fertilizers, *the choice of seeds* and thorough tillage, can secure returns in proportion to the adequate use of these means. Mistaken economy in one or more of these conditions occasion the loss which annually drives out of the business careless or penurious cultivators."

Prices include postage. Write for special prices on larger lots.

EARLY YELLOW GLOBE DANVERS.

The most popular yellow Onion all over the country. *Our strain is the best that can be had.* The Onions from which our seed is raised are selected on the following points: *Earliness of maturity*, extra large size, even and handsome form, thin neck and *best keeping qualities*. It is the heaviest yielder and has given universal satisfaction. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.40; 5 lbs. (by express), \$6.00.

EARLY FLAT YELLOW DANVERS.—Differing from the Globe strain only in shape, being more flat. Very productive. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.10; 5 lbs. (by express), \$4.80.

EARLY ROUND, or Thick Yellow Danvers. (Buxton stock).—A very early variety, round with small neck; ripens very uniformly, and yields large crops; is a good keeper. *We have a fine strain of Massachusetts grown seed* of this, which has given the best of satisfaction for more than ten years. *This true stock is always scarce*; the demand exceeding the supply. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

EARLY RED GLOBE.—Very early and grows to a good size; is very prolific, and keeps well; skin deep red, form good and flavor mild. (Do not confound this with Large Red Globe.) Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

LARGE RED WETHERSFIELD.

While gardeners in various sections of the country choose their main crop varieties of Onions according to local demand, and in one section plant Early Red Globe, in another Early Round Danvers, and in a third, the White Globe or Large Red Globe, yet for general purposes the country over no variety is so largely planted as the *Large Red Wethersfield*. It is because of the demand for this, that we have taken special pains each season with our stock, and believe none better can be found. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.35; 5 lbs. (by express), \$6.00.

Special rates on large lots.

WHITE PORTUGAL OR SILVERSKIN.—Very early, mild-flavored, excellent for growing sets; produces fine onions from seed. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.25.

Philadelphia Silverskin.—Celebrated as the variety for sets. Pennsylvania gardeners plant no other. Pkt., 5c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.25.

Extra Early Pearl.—A very handsome pearly white sort of medium size for home use. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

Vaughan's Pickling.—A pure white, hard, round, small Onion with excellent keeping quality; is *most desirable for pickling* purposes. It possesses all the requisites of a first-class pickling Onion in the highest degree. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.85.

White Globe.—Handsomest of all the standard kinds. We have a splendid strain of this, large, early, even and of good keeping qualities. Pkt., 10c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.35. Special rates on larger lots.

Southport Large Red Globe.—Pkt., 5c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.25.

Southport Large Yellow Globe.—Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

These two kinds are like the White Globe Onion, except in color. They are perfectly globe shaped, of handsome appearance, heavy croppers, excellent keepers, and of large size.

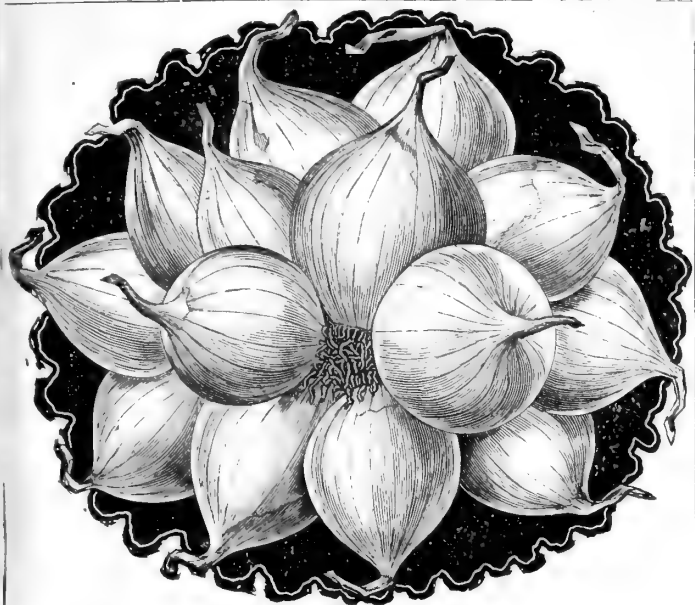
MAMMOTH SILVER KING.

This mammoth variety is one of the largest in cultivation, averaging from 12 to 22 inches in circumference and often weighing 2½ to 4 lbs. each. It matures early and is uniformly of large size and fine shape, being flattened but very thick. The skin is of a beautiful silver-white, flesh snowy and tender, of a mild, sweet flavor. We know of no variety of this vegetable which has attracted so much attention as this. Its striking size and handsome appearance, as well as mild flavor, recommend it for exhibition at fairs, for the fancy market, as well as the home table. Pkt., 10c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.25.

MAMMOTH POMPEII.

For exhibition purposes, where they always attract attention, it is an excellent companion to the Silver King when shown together, being equally large and of different color. Pkt., 10c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.25.





WHITE MULTIPLIER ONION SETS.

Largest Early Flat Red.—A large sort, growing from 5 to 6 inches in diameter and a little over 2 inches thick. It is a medium early variety, and a very good sort for Fall use. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.25.

ONION SETS

Quart prices include postage; pecks and bushels at buyer's expense.

Culture.—Sets furnish large onions early, as well as the first green onions for table use. Plant the sets as early in Spring as possible, in shallow drills, one foot apart, and four inches between sets. Cover slightly. They can be used in a green state in June, and are ripened off by July. To grow sets, sow the seed early in Spring very thickly in beds or drills. When the tops die down, gather the little bulbs, dry and store. One quart of sets is needed for 100 feet of drill.

We supply these in quantity to seedsmen and market gardeners, and store each season many hundreds of bushels. They are fine sets, dry, of fair size and carefully cleaned. Please remember that Onion Sets are subject to fluctuations of the market and the prices per bushel quoted below are those of the time when this catalogue was published and are not binding throughout the season. Always write for latest market rates before ordering. We keep regularly in stock only the following kinds.

WHITE MULTIPLIER ONION SETS.

These have been in existence many years in a small way, grown in the family garden and wintered in the cellar, but never grown in sufficient quantity for introduction to the trade until this season. We secured a considerable quantity from a customer who has for several years in his gardening for market grown and jealously guarded the control of these sets. This season for the first time he consented for a high price to dispose of the bulk of his crop which we secured. The largest of the sets if allowed to grow through the summer make an onion of fair size which divides when ripening in the Fall, multiplying liberally for another year. Our illustration is made accurately from nature and represents them in natural size. We have counted as many as 20 sets on a single bunch. Pint, 25c.; quart, 40c.; by express, peck, \$2.50; bushel, \$9.00.

White Bottom Sets.—Pint, 20c.; qt., 35c.; peck, \$1.50; bush., \$5.50.

Yellow Bottom Sets.—Pint, 15c.; quart, 30c.; peck, \$1.00; bush., \$3.75.

Red Bottom Sets.—Pint, 15c.; quart, 30c.; peck, \$1.10.

Red Top Sets.—Pint, 15c.; qt., 30c.; peck, \$1.00.



WHITE ADRIATIC BARLETTA.

Potato Onions.

—If planted immediately after winter, well-grown onions may be had the following June. The flesh is very agreeable to the taste and of good quality. Qt., 30c.; peck, 75c.; bush., \$2.75.

English Shallots or Multipliers.—Pint, 15c.; qt., 25c.; peck, 75c.; bushel, \$2.75.

Bottom Onion Sets are sold by measure; Top Sets, Shallots and Potato Onions by weight (28 lbs. to bush.)

• A NEW GERMAN VARIETY. •

Deutsche Perle.—This is the most beautiful of all this class of Onions for pickling and chow chow. They are perfectly round and the smaller ones resemble pearls as near as any vegetable can. They multiply from the base of the roots and the very largest bulbs are only the size of a five cent piece while the off sets are about the size of large peas. We have but a small quantity, enough to give a few of our customers a start with these very desirable pickling onions. Price, per pkt., 15c.; 2 for 25c.

GILMAN, IOWA, March 31st, '90.—The past two years I purchased five pounds of onion seed from you each season; better onion seed could not be obtained, it was No. 1 in every respect. D. H. GAULT.

MINERAL POINT, WIS., Oct. 23rd, '90.—The Barletta Onion gave perfect satisfaction. W. P. CUNDRY.

OSHKOSH, WIS., Oct. 30th, '90.—The Barletta Onion is very good for bunching, very fine quality. H. D. BALLARD.

MANISTEE, MICH., Nov. 3rd, '90.—White Barletta Onions were over four weeks earlier than our other seed onions. They were so mild and dainty. Our customers would take no others while they lasted. There was nothing in our garden with which we were more pleased. J. E. CARLETON.

The Real Value of seeds is best known when the crop is harvested; the figures given in the catalogues of various seedsmen being often an uncertain estimate. We believe the product of our seeds will show our prices to represent their **Actual Worth.**

ITALIAN ONIONS

The Italian Onions are very popular, owing to their quick growth, large size and mild flavor, many sorts making onions weighing two to four pounds from seed the first year. The smallest, if set out in the second season, will continue to increase in size, instead of running to seed like the American onions. They succeed well in every section of the country.

NEW RED VICTORIA.—Of oval shape, skin very dark red, flesh light rose or white, flavor mild and sweet. These grow to weigh from 2 to 4 pounds each under ordinary cultivation. A very profitable and interesting sort. Pkt., 10c.; 3 for 25c.; oz., 40c.

NEW WHITE VICTORIA.—In shape and size like the above, while the skin is silver-white with sometimes a shading of a delicate light rose-color. Flesh white, juicy and sweet. Pkt., 10c.; 3 for 25c.; oz., 50c.

GIANT BROWN ROCCA.—A fine, globe shaped variety, of mild and delicate flavor, immense size, sometimes weighing three pounds, with light brown skin. An excellent keeper. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.40.

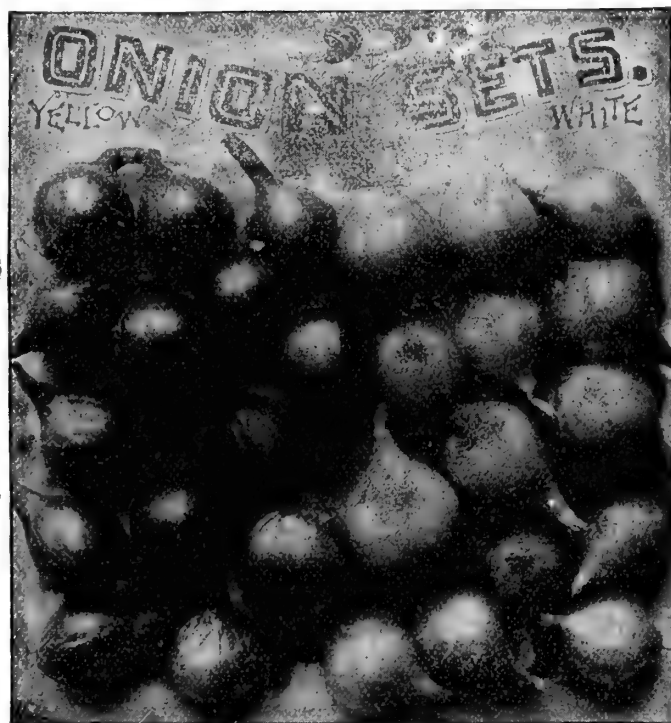
GIANT BLOOD-RED ROCCA.—Of fine deep-red color. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.85.

GIANT YELLOW ROCCA.—Resembling the above in size and quality, but of a beautiful golden yellow color. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.85.

White Queen.—Remarkable for its extreme earliness and very mild flavor; it is small and white skinned; much liked for pickling. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.25.

WHITE ADRIATIC BARLETTA.

This variety is most distinct on account of its great earliness. It is from two to three weeks earlier than the *White Queen*. It is of a beautiful waxy white color and grows 1½ inches in diameter and ¾ of an inch thick, with finely formed bulbs, slightly flattened at the top. Its earliness will highly recommend its use as a substitute for Onion sets, and it is without a rival for pickles. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.



PARSLEY

PETERSILIE.

CULTURE.—Parsley is used for seasoning soups, meats, etc., for salads and garnishing, and as an ornamental border in the flower garden. Since the seed germinates very slowly, the plants sometimes not appearing for three or four weeks, sow as early as possible and soak the seed a few hours in lukewarm water before sowing. One ounce sows about 140 feet of drill.

DOUBLE CURLED.—Finely curled dwarf. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

CHAMPION MOSS CURLED.—A very fine English sort; leaves beautifully curled and mossy, a handsome standard sort. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Fern-leaved.—A most valuable plant for garnishing and for ornamental foliage plant in borders. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Plain.—Longer than curled sorts and stronger in flavor. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Hamburg Rooted.—Also called German Parsley. The root, which resembles a small Parsnip, is the edible part of this variety, which is extensively grown and used by Germans for flavouring soups, etc. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.

NEW HAMBURG ROOTED, GLORY OF ERFURT.

This new kind combines the qualities of the Hamburg Rooted Parsley, with the very double curled leaves which render it equally valuable, both for cutting in Summer, and if planted in boxes, in Winter. Pkt., 5c.; oz., 15c.

SUCCESS IN MARKET GARDENING.

(RAWSON'S.)

A very valuable book by an experienced gardener, giving full information on the sowing of the seed, planting, harvesting, varieties, etc. Price, by mail, \$1.00.



MALTESE.

HOLLOW CROWN.

PARSNIP

PASTINAK-WURZELN.

CULTURE.—The Parsnip has value not alone as a table vegetable, but it is also one of the best roots for stock-feeding. Its long slender roots call for a deep, mellow, rich soil. A shallow bed or a dressing of fresh manure will make short, forked roots of inferior quality. Sow early in Spring in drills, 15 inches apart and ½ inch deep. When the plants are 2 or 3 inches high, thin out to 6 inches in the rows. Cultivate often until the leaves cover the ground. These roots are improved by frost, and can be left in the ground over winter.

Hollow Crown, or Long Smooth (Abbott's Improved.)—Smooth and large; very tender and sugary; one of the best for general cultivation. Our stock of this is very fine. Pkt., 5c., oz., 10c.; ¼ lb., 20c.; lb., 60c.

IMPROVED GUERNSEY.—A very fine and improved strain which has given general satisfaction. The roots do not grow so long as those of the Hollow Crown, but are of greater diameter and more easily gathered. The roots are very smooth, the flesh fine grained and of excellent quality. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

Maltese.—Very handsome and of excellent quality. The base of the leaf stems have the appearance of a Maltese cross. Shorter than others and better for shallow soils. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

The Student.—A good half long variety, smooth, sweet and of delicate flavor. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

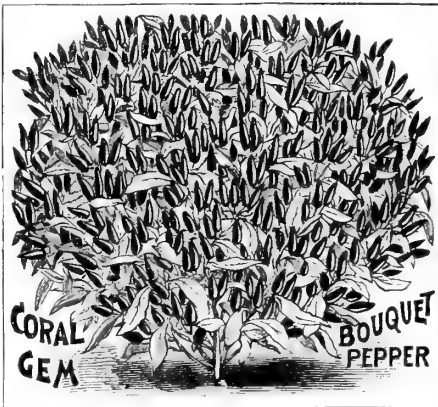
TO MARKET GARDENERS.

We offer to the Market Gardeners a complete list of seeds of the best selling vegetables in the country. We have taken special pains in preparing this Catalogue for 1891 to select and make prominent those varieties of each class that have proved most profitable the past seasons.

OUR TOOLS.—We combine with our seeds the most complete list of *Garden Tools* kept in the country, and at bottom prices.



RUBY KING.



CORAL GEM

BOUQUET PEPPER

PEPPER.

Remember our prices include postage, except where noted.

CULTURE.—Pepper is highly valued for its pungent flavor, and is used in seasoning soup, meats, etc.; also used for pickles and mangoes. Sow in a hot bed in April, and transplant to open ground in warm settled weather to rows 2 feet apart and 18 inches in the rows. Or, when all danger of frost is passed, sow at once in open ground, and thin to same distance as above. Any rich fertilizer or bird manure, if applied and stirred into the soil when the plants are 6 in. high, will be of great benefit. One oz. will produce 2,000 plants.

SWEET MOUNTAIN.—Resembles Bell in size and color, but is of milder flavor. Pkt., 5c.; oz., 30c.; ¼ lb., 80c.; lb., \$3.00.

GOLDEN UPRIGHT.—Produces the fruits UPRIGHT on the stems. The fruits are large and FULLY DOUBLE THE SIZE of Golden Dawn, and of a beautiful rich golden yellow, tinged with bluish-red where exposed to the sun. The peppers are mild, and as pleasant to the taste as Ruby King. Pkt., 10c.; oz., 40c.

Celestial.—A very showy plant, and a most desirable Pepper. The plant begins to set its fruits early in the season and continues until frost, branching freely and bearing profusely. The peppers, when young, are delicate creamy yellow, and ripen to a vivid scarlet, making a plant, when loaded with fruit part of one color and part of the other, an object of the most striking beauty and oddity. They are from 2 to 3 in. long and of clear sharp flavor. Pkt., 10c.; ½ oz., 30c.

RUBY KING.—Grows 4½ to 6 inches long by 3½ to 4 inches thick. A beautiful, bright ruby red color, and remarkably mild and pleasant to the taste. Pkt., 10c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.75.

RED SQUASH, or Tomato Shaped.—Flesh very thick; fruit round, smoother and of milder flavor than the old varieties. Pkt., 5c.; oz., 30c.

PEPPERS MIXED.—Southern climates delight in the production of a multitude of kinds of these pungent and pretty vegetables. The appetite of man in the warmer countries seems to need to be whetted by some such



LARGE BELL, OR BULLNOSE.



GOLDEN UPRIGHT.

LARGE BELL.—Large and early, rind very thick, color glossy red, flavor mild and pleasant. Extra choice stock; you will find few better kinds of pepper to stick to than this. Pkt., 5c.; oz., 25c.; ¼ lb., 80c.

GOLDEN DAWN.—This new handsome kind is one of the most ornamental and desirable sorts. It is a beautiful golden yellow, quite sweet, without any fiery taste; very productive. Pkt., 5c.; oz., 25c.

Cayenne Long Red.—Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

RED CLUSTER.—A French variety, a sport of the Chili Pepper, which it resembles; the leaves, however, are smaller, and so are the fruits. The latter are curiously crowded together on the top of each branch; they are rather thin, and of a conspicuous coral red color, very pungent. Pkt., 5c.; oz., 35c.

Spanish Monstrous.—Very large single peppers, often growing six to eight inches long and two to three inches thick; early and most productive; flesh very sweet and mild. Pkt., 5c.; oz., 30c.

Cherry Red.—Fruit small, red, round, and very hot. Pkt., 5c.; oz., 25c.

◎ CORAL GEM BOUQUET PEPPER. ◎

This new pepper is the finest of the small sized varieties. Its beautiful pods of shining red color are so thickly set as to give it the appearance of a bouquet of corals. As a pot plant it has proven a most rapid selling article, for besides its great beauty it serves the housekeeper in a most convenient way when pods are wanted for seasoning. In the open ground the plants grow to the height of from 24 to 30 inches, so densely set with pods as to bend the branches down. There are so many desirable qualities combined in this, it will undoubtedly become the most popular for general use. Pkt., 10c.; 3 for 25c.

stimulant. They are very useful in nearly all pickles, relishes and the like and several sorts are grown as ornamental plants in pots. Our mixture includes many new and odd sorts. Price, per pkt., 10c.

VAUGHAN'S GARDEN PEAS

PACKET, PINT AND QUART PRICES INCLUDE PREPAYMENT BY MAIL.
IF TO GO AT BUYER'S EXPENSE 15 CTS. MAY BE DEDUCTED FROM THE QUART PRICE.

Culture.—Peas succeed best in light, dry, loamy soil. Early and dwarf sorts require richer soil than the late varieties. If manure is used, let it be old and well rotted, or there will be a rank growth of vines with few pods. Sow the early, smooth, round sorts as early in Spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. Sow all the varieties quite early, and depend for succession upon the different times of ripening of the various sorts, or from the first sowing, sow every two weeks until June for a succession. After that there is danger of mildew. Discontinue then until August, when a planting of an extra early or early sort will often produce a good crop. Sow the seed in single drills, 3 feet apart for dwarf sorts, and 4 for tall sorts, or in double drills, 6 or 8 inches apart, 1 inch apart in the drill, and not less than 4 inches deep, or for the late sorts 7 to 8 inches deep, since deep planting prevents mildew and prolongs the season. *Figures preceding the names indicate their height in inches.*

Wrinkled varieties are marked thus *

EXTRA EARLY VARIETIES.

MAUD S. THE EARLIEST PEA. *The most profitable Pea for the Market Gardener, being the EARLIEST and MOST PRODUCTIVE.*

The above strong claims for the **MAUD S.** are fully sustained by the numerous letters of praise we receive from our customers who have planted it for the last three years and found it the **EARLIEST PEA** grown, beating the records of all the other "FIRST EARLIES" by at least several days and having the following important points in its favor beside its extreme earliness. It is of vigorous habit of growth, vines about 30 inches high and *wonderful productive*, the pods being numerous and well filled, and last but not least its *uniformity of ripening* make it the *most profitable Pea for the market gardener*. Our stock has as before been grown by the originator in Northern Canada, from his own original stock seed, carefully rogued, riddled and hand picked and we know *there is no better Pea for first early than MAUD S.* for the market, while we would recommend our customers who only plant a small bed for the home garden to use the American Wonder or Little Gem, which do not yield quite so heavily but are sweeter.

Price, pkt., 10c.; pint 20c.; quart, 40c.; by mail, postpaid; by freight or express, pint, 13c., quart, 25c. peck, \$1.40; bush, \$5.00. We do not send them out in "sealed bags" but save our customers the extra "expense."

MOMENCE, ILL. I had Maud S. peas on the market two weeks before any others. ORRIS METCALF.
RANTOUL, ILL. Maud S. Pea was a complete success. J. A. OSBORNE.
WATAGA, ILL. Maud S. is a good article; very early. W. H. GIVLER.
BURLINGAME, KANS. The Maud S. Pea is far ahead of anything I ever raised. F. M. STEVES.

BLISS' AMERICAN WONDER.

9 in. **The earliest of the wrinkled Peas and best for family use*; very dwarf and remarkably productive, having very large pods containing 6 to 9 large peas. *Flavor unsurpassed.* We heartily recommend this Pea as a first early sort. Pkt., 10c.; pint, 25c.; quart, 40c.; peck, \$1.50; bushel, \$6.00.

30 in. **Laxton's "Earliest of All."**—The very best of all the *first early* hardy blue-colored varieties, and has proved to be all that its name implies. It is an abundant bearer of good-sized, well-filled pods and the peas are even in size, and delicious when cooked. Pkt., 10c.; pint, 20c.; qt., 40c.; peck, \$1.25; bu., \$4.50.

30 in. **PHILADELPHIA EXTRA EARLY.**—Very fine, early pea, flavor good; bears abundantly, it is a favorite market sort. Our strain of this is very carefully selected. Pkt., 10c.; pint, 20c.; qt., 35c.; peck, \$1.00; bush., \$4.00.

10 in. ***Little Gem.**—Very early, dwarf, green wrinkled marrow Pea; quality excellent; it needs no support and bears abundantly. *Matures in 8 weeks.* Pkt., 10c.; pint, 20c.; qt., 40c.; peck, \$1.25; bush., \$5.00.

10 in. ***Extra Early Premium Gem.**—An improvement on the Little Gem; dwarf and prolific; pods large. Pkt., 10c.; pt, 25c.; qt., 40c.; pk., \$1.35; bu., \$5.00.

30 in. **First and Best.**—Extremely early, productive, and ripen all the same time. Pkt., 10c.; pint, 20c.; qt., 35c.; peck, \$1.00; bush., \$3.50.

30 in. **ALASKA.**—This new market Pea has become a standard variety, proven to be not only *several days earlier than most early sorts*, but of *larger size and ten per cent more productive.* The vines are very dwarf, growing about twenty inches high, peas blue. Pkt., 10c., pint, 20c.; qt., 40c.; peck, \$1.25; bush., \$4.50.

30 in. **DAN'L O'ROURKE.**—An improved strain of this extra early Pea. Pkt., 10c.; pint, 20c.; qt., 35c.; peck, \$1.15; bushel, \$4.00.

26 in. **Laxton's Alpha.**—Very prolific early wrinkled variety. Pkt., 10c.; pint, 20; quart, 40c.; peck, \$1.25; bush., \$4.50.

12 in. **Blue Peter.**—A very vigorous grower; dwarf and prolific; peas large and of fine quality. Pkt., 10c.; pint, 20c.; quart, 40c.; peck, \$1.35; bush., \$5.00.

LANDRETH'S EXTRA EARLY.—This standard sort, put up in sealed red bags, has always been a great favorite with the Chicago gardeners and we have again secured a supply which we offer at Landreth's prices. Pkt., 10c.; pint, 25c.; quart, 40c.; peck, \$1.50; bush., \$5.50.

SECOND EARLY SORTS.

18 in. ***Abundance.**—Large, fine flavor, very prolific. Pkt., 10c.; pint, 25c.; qt., 40c., pk., \$1.25; bu., \$4.50.

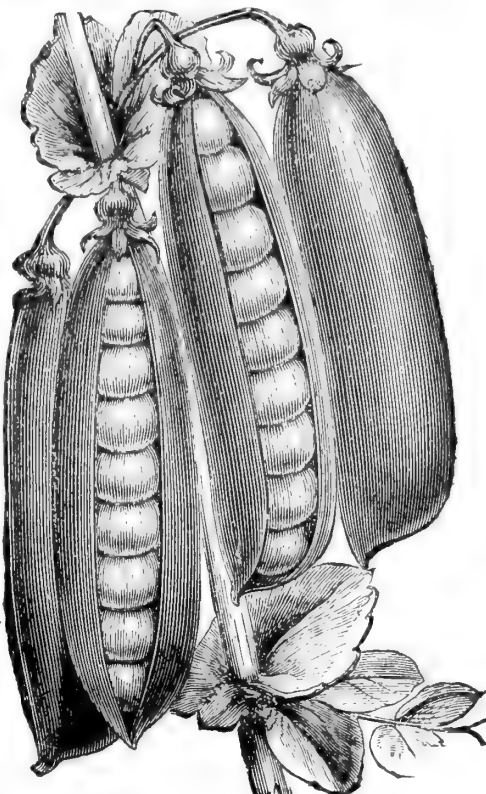
30 in. ***McLEAN'S ADVANCER.**—Bears an abundance of long, full pods at end of the vine; growth vigorous; peas very sweet and tender. Best second early sort for home and market garden use. Pkt., 10c.; pint, 20c.; qt., 35c.; peck, \$1.00; bushel., \$4.00.

HORSFORD'S MARKET GARDEN.

One of the *best second early Peas*; a cross between the "Alpha" and "American Wonder." It grows from 20 to 30 inches high, is very stocky, and requires no bushing. It is *extremely prolific* and bears its pods always in pairs. Pkt., 10c.; qt., 40c.; peck, \$1.35; bush., \$5.00.

***ANTICIPATION.**—This new, sweet Pea was introduced by a renowned English house several years ago, as a sort being quite distinct and we have found it a very fine second early Pea. It grows to a height of about 2½ feet being of sturdy habit, pods are immense, well filled and the quality is excellent. Pkt., 10c.; pint, 25c.; quart, 45c., peck, \$2.50.

MANISTEE, MICH. We have found your Maud S. Pea were ready for market eight days before the American Wonder when planted at the same time. It is the first early pea we have tried; it is also a heavy J. E. CARLETON.



MAUD S.

FOR GENERAL CROP AND LATE USE. TELEPHONE.

48 in. *This strong growing sweet wrinkled Pea is driving out of the local market the common kinds of early hard Peas, owing to its *strong growth, large, handsome, well filled pods, and very fine table quality.* Market gardeners have found it the most profitable sort. The vines often bear 18 to 20 pods per stalk, each containing 6 or 7 large peas. Pkt., 10c.; pint, 25c.; quart, 45c.; peck, \$1.60; bushel, \$6.00.

STRATAGEM.

24 in. *An English blue wrinkled marrow of recent introduction; *vines of strong growth as to need no support, and remarkably free-bearing*; peas very large and fine flavored, pods sometimes six inches in length and well filled. Pkt., 10c.; pint, 25c.; quart, 45c.; peck, \$1.75; bushel, \$6.50.

*PRIDE OF THE MARKET.

24 in. This has already become one of the *most popular Market Peas.* In length of pod it is equal to Stratagem, from which it differs in possessing a greater depth of color, with round, blue seed. It grows from eighteen inches to two feet in height, and bears grand pods well filled with large and fine flavored peas from top to bottom. *We urge a trial by every gardener. Its robust constitution, enormous yield and superior appearance,* ensures its acceptance as a favorite with the public. Pkt., 10c.; qt., 40c.; peck, \$1.50; bu., \$5.50.

60 in. ***CHAMPION OF ENGLAND.**—The Standard of late variety for either market or private use. Pkt., 5c.; pint, 20c.; qt., 35c.; peck, \$1; bush., \$3.50.

30 in. **Dwarf Blue Imperial.**—Pkt., 10c.; pint, 20c.; qt., 40c.; pk., \$1.25.

24 in. ***Yorkshire Hero.**—Very vigorous grower of branching habit; pods large round and well-filled; peas white and wrinkled, of extra fine quality; a great cropper. Pkt., 10c.; quart, 35c.; peck, \$1.15; bush., \$4.25.

42 in. **Long Island Mammoth.**—An excellent cropper. Pods large, quality good, earlier than the Champion of England. We particularly recommended this variety for market use. Pkt., 10c.; pint, 20c.; qt., 40c.; peck, \$1.50; bush., \$5.75.

24 in. ***Everbearing.**—Late dwarf variety of robust growth, forming sometimes as many as ten branches from a single stalk; pods 3 to 4 inches long, containing 6 to 8 large wrinkled peas often half an inch in diameter, rich and marrowy. Continues remarkably in bearing, producing new blossoms after repeated picking until frost. Pkt., 10c.; pint, 25c.; qt., 40c.; peck, \$1.25; bu., \$4.50.

48 in. ***Laxton's Evolution.**—A large, wrinkled Pea of unusually rich and sugary quality. A very desirable point is its long period of bearing, a single sowing continuing to bear for several weeks. Pkt., 10c.; pint, 20c., qt., 40c.; peck, \$2.50.

60 in. **Tall Grey Sugar.**—Edible podded when young, used like snap beans or shelled. Pkt., 10c.; qt., 40c.

36 in. **Black-Eyed Marrowfat.**—Pkt., 5c.; pint, 20c.; qt., 30c., peck, 60c.; bush., \$1.90.

48 in. **Large White Marrowfat.**—Pkt., 10c.; pint, 20c.; qt., 30c.; peck, 65c., bush., \$2.25.

Canada Field Peas.—Peck, 50c.

Write for market rates on large lots.



VAUGHAN'S NORTHERN MICHIGAN SEED POTATOES.

DOUBTLESS, the spring of 1891 finds the Potato supply of the country the smallest ever known. Our own seed crop fell off almost 50 per cent. Our demand from the Southern Seaboard would have taken double our entire crop, had we not retained a portion for those who depend on our catalogue offers for their supply.

Respecting our North Michigan stock of potatoes, we repeat for the benefit of new customers our claims for them; they have been grown for us from genuine stock, **ESPECIALLY FOR SEED**, on the extreme Northern shores of Lake Michigan; the soil is new, mostly sand, and but lately cleared of hardwood timber. The advantages from such seed are, **EARLY MATURITY, INCREASED YIELD, AND VIGOROUS, HEALTHY GROWTH, WITH VITALITY TO RESIST DISEASE.**

WE SHALL SHIP as early as is safe from frost. We will ship when requested, any time when customers wish to take their own risk. Orders from the South can be shipped at any time (except during very severe weather,) as direct Southern trains from Chicago are out of freezing weather in twenty-four hours. On **late orders** it will save time to state, in case supply of some kinds is exhausted, whether you wish us to return money or substitute other sorts of same value.

FIVE BBL. LOTS OF ONE OR MORE KINDS, 10 CENTS PER BBL. LESS. Our Barrels contain 2½ bus., or 165 lbs. net.

Any variety free by mail, lb., 30c.; 3 lbs. of one kind, 65c.

EARLY WHITE PRIZE.

A new variety which we have tested for two years and found it worthy of a place in our list of **best early sorts**. It is of oblong shape, somewhat flat,

of good size; the skin is white, somewhat russet, which denotes its good table qualities; the flesh is pure white and when cooked or baked is dry, mealy and of very good flavor. The tubers grow compact in the hill, of uniform size, not yielding any overlarge or many small ones. Our grower in Northern Michigan, who has raised over two hundred kinds of the best potatoes, states that if he used but one early variety it would be the Early Prize. It has that excellent quality common with the Early Ohio, that its tubers are fit for the table at almost any stage of their growth. Per peck, \$1.00; bush., \$2.50; bbl., \$6.00.

EARLY OXFORD.—The type is that of the Early Rose, but lighter in color. A strong grower, and equals the old Early Rose in its best days. In quality it is hard to beat, and we believe it to be one of superior merit. After the Alexander's Prolific it was the most productive kind with us this season. It comes from the best potato section in the State of Maine. Peck, 75c.; bush., \$2.25; bbl., \$5.

EARLY ALBINO.—A new seedling, native of Vermont, which we introduced, has given such excellent and general satisfaction that we place it among the first and best of our early potatoes for 1891. The tubers are half long, cylindrical in shape, white skin, very early, and of the **BEST QUALITY**; cooks as white as flour, either baked or boiled. It is a cross of Early Ohio and Snowflake, and results are in keeping with the high standing of those sorts. We have found it a very productive kind, and the tubers grow closely in the hill. Peck, 75c.; bush., \$2.25; bbl., \$5.

LEE'S FAVORITE.—It is entitled to a very high rank among the early sorts, for the following reasons: Extreme Earliness, being one week earlier than Hebron. Very Productive, having yielded at the rate of 400 bushels per acre. Good Size, some tubers having weighed one pound each, and but a small portion of small or undersized tubers in the crop. We could not half supply our Southern orders on this variety this season.

Stock sold out.

MACOUPIN CO., ILL., Nov. 1. My object has been to find for my own use the one best Potato for yield, quality and keeping. I have found it in your "Alexander's Prolific." It is nearer perfect in all points than any other of 25 or more varieties I have tested.

W. H. STODDARD.

Don't forget to get one of our Humphrey's Potato Knives, price, 35 cents, postpaid.



RESULT FROM BEST SEED.



RESULT FROM RUN OUT STOCK.

THE ARIZONA, (NEW.)

In color a little brighter shade than the original Early Rose. It originated in Arizona from a cross of the Early Rose with the native wild mountain potato. Very hardy; our crop was twice cut by frost, but recovered and made a splendid yield. It was second in yield this season only to Empire State. Quality first-class, though some of the potatoes cook streaked occasionally. It is a second Early, an **EXTRA CROPPER**, and shows a vigorous habit that makes us believe it has come to stay. We are continually offered new varieties for introduction, but have never sent out any without a good trial, and we believe this to be worthy of attention. Peck, 75c.; bush., \$2.25; bbl., \$5.00.

MANITOWOC, WIS., Aug. 29, '90. The Arizona is a wonderful Potato; I congratulate you upon the chance you have in getting this sort introduced. My Badger State is also doing somewhat better than all the rest.

F. A. HUBNER.

VICK'S EXTRA EARLY.

—Our grower says, this variety will justify very high praise as an early sort of splendid quality and a prolific cropper. He is especially enthusiastic about its table quality and white floury appearance when cooked. Per peck, 65c. bush., \$2.00; bbl., \$4.50.

EARLY OHIO.—Now widely known, and deservedly one of the most popular sorts that "grow in the ground." We grow it more extensively than any other, finding it the most popular of all the older standard kinds we offer; regret that we have a very limited supply of the Genuine North Michigan Stock. Peck, 75c.; bush., \$2.25; bbl., \$5.

BEAUTY OF HEBRON.

—An early, rapid growing variety—earlier than the Early Rose, and excelling it from 25 to 40 per cent. in yield.

Too well known to need description. We offer our Northern Michigan grown tubers to all who desire a change of stock seed. Peck, 65c.; bush., \$2.00; bbl., \$4.50.

EARLY POLARIS.—A long, oval, creamy white potato, cooking very white. First class in quality and very prolific. A good one. Peck, 60c.; bush., \$2.00.

CLARK'S NO. 1.—It is similar to the Early Rose, but is earlier, and will yield from a quarter to a third more. Per peck, 65c.; bush., \$2.00; bbl., \$4.50.

THE DELAWARE, (GREGORY.)

—Our inspector in looking over the growing crop of this in September, says: Hang on to this beautiful medium early, splendid quality and almost equal in yield to the late sorts. Per peck, 75c.; bush., \$2.25; bbl., \$5.00.

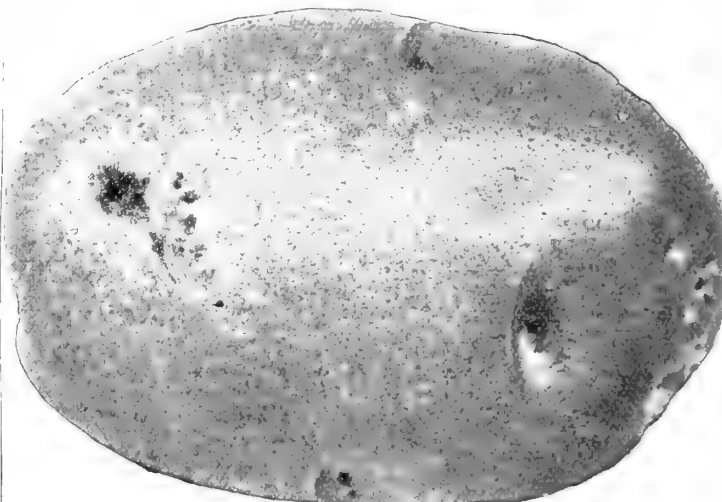
EARLY SUNRISE.—Very valuable early sort; tubers of uniformly good size; shape oblong; flesh solid and fine grained, with rosy tint. Cooks dry and mealy, even when first dug. Per peck, 65c.; bush., \$2.00; bbl., \$4.50.

MUSKINGUM CO., O. I want one barrel of Old Alexander Prolific, the best Potato I ever raised. I got a peck from you last year and raised 7 bu. which I planted and had a good crop of them for this year, as potatoes were almost a failure here.

E. R. WALKER.

WARSAW, N. C. From 3 barrels Lee's Favorite Potatoes planted in spring '89, I sold \$127.00 worth in the N. Y. market exclusive of small Potatoes.

J. H. ROYAL.



EARLY WHITE PRIZE.



EARLY ALBINO. Product of one Eye.



THE VAUGHAN POTATO



BRONZE MEDAL, AM. INSTITUTE, N. Y.

Shown in October last at American Institute, New York, and after trial of its table qualities it received the Bronze Medal of Excellence. It also received a **First Class Certificate** from Mass. Horticultural Society at Boston in November after a very thorough test. These are records to be proud of. The Vegetable Committee of the Boston society maintaining the highest standard in America.

In offering a Potato with a pedigree, a record and highest endorsements, we have given it the name **THE VAUGHAN**, believing it will do us credit, and we offer it very low for a novelty of its class.

Mr. Coy thus describes this variety and its origin:

WEST HEBRON, N. Y.—The "**EARLY VAUGHAN**" is the only one that proved to be of any special value from a large number of seedlings of 1885. This one from the first showed a marked superiority in all the essential points that are required in making up a first class early variety, such as **vigor and healthfulness of vine and tuber, productiveness and fine table quality**. One by one the others were discarded on the principal of the "Survival of the fittest," until this stands alone of my seedlings of 1885. This is an inbred seedling of the grand old Peerless and inherits its parent's vigorous constitution. In form it resembles the Early Beauty of Hebron except that it is a little more elongated. Its skin is a **beautiful flesh color all over the tuber**, not clouded like Beauty of Hebron and White Elephant. **Flesh is very white and of a delicate rich flavor**. In handling them they have a peculiar velvety feeling to the hand, that is marked and distinct from any other variety. It ripens with the Early Puritan and like it, the tubers when less than half grown, are dry and fine for table use. My crop of "**EARLY VAUGHAN'S**" this season like all early varieties, was injured by the drought of July, making the tubers much smaller than they otherwise would have been. **Still they average larger than any of 20 early varieties I grew this season**, except "The Thorburn" which was its closest competitor in productiveness and freedom from rot. I predict that **this new seedling will soon occupy a high and enviable position** for early market planting as well as for the private garden. I have sold my entire right and ownership in this valuable and beautiful seedling to J. C. Vaughan of Chicago, for a large price, and firmly believe that all who purchase from him will thank him for introducing it.

EDWARD L. COY.

PORT HURON, MICH. I grew of the New Seedling (Vaughan) 22 lbs. from the single tuber, at the rate of 443 bushels per acre, in spite of flood, drought and flea beetles.

HIRAM PRESLEY.

Price, 1b., 50c.; 3 lbs., \$1.00, prepaid; by express not prepaid, 1-2 peck, \$1.25; peck, \$2.00; bush., \$4.50; bbl., \$10.00.

WHAT THEY THINK OF OUR NORTH MICHIGAN POTATOES IN THE SOUTH.

SAVANNAH, GA. This certifies that I bought of J. C. Vaughan, the Chicago Seedsman, in February last, 2 barrels of Lee's Favorite Potatoes, grown in North Michigan. These were planted early in March last and gave a remarkable yield of choice Potatoes with hardly any small ones and the crop was very uniform in size and yielded fully 40 barrels of fine quality Potatoes. The soil was high sandy upland and I consider this variety of so much merit that I can confidently recommend it to planters as the best Potato ever grown in this section, being earlier and much more productive than the Early Rose variety.

W. E. FINNELL.

Referring to foregoing certificate, I can testify that I witnessed, last harvest season, a yield of Potatoes from sandy upland soil on the farm of Mr. W. E. Finnell, near this city, so extraordinary in quantity and of such size and quality of tuber, as to impress me with the value of the variety from which they were grown and to the farmers of this section of Georgia, and to prompt inquiry as to where it was procured, Mr. Finnell informed me that the Potatoes were grown from a variety obtained from J. C. Vaughan, Seedsman, Chicago.

MAXIME J. DESVERGERS, Inspector Sanitary Assn.

SCOTT'S HILL, N. C. Forearly market the Ohio Jr. is the best potato I have ever tried. The stand was good and the yield fine.

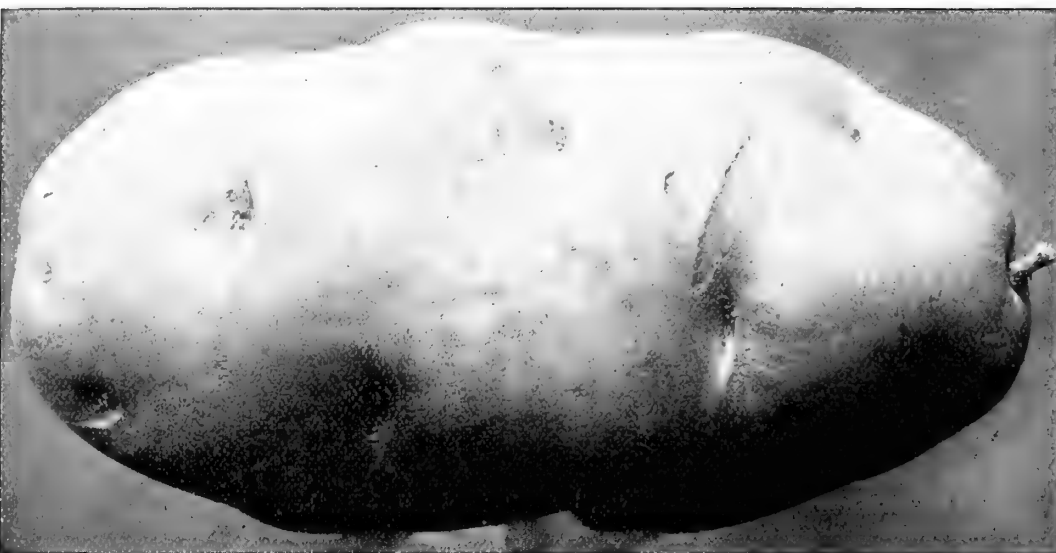
R. K. BRYAN, JR.

CHICAGO, ILL. My Empire State are excellent and good yield. WALLACE CAMPBELL.

WRIGHTSVILLE, N. C. I got 25 barrels Early Ohio Jr. from 2 1-2 barrels of seed purchased from you. It is the earliest and best potato I ever planted.

G. W. WESTBROOK, CHARLESTON, S. C. The Ohio Jr. purchased of you yielded about 40 barrels per acre. They were planted too late to give them a fair test, but the potatoes were extra large, uniform in size, of a bright color and carried well.

G. G. DUPONT.



NEW BADGER STATE.

• BADGER STATE. •

Introduced by us in 1889.

A large, oblong white potato of excellent market shape and appearance. A strong grower and good yielder. It is from a seedball of Burbank's Seedling fertilized with Wall's Orange. The originator, Mr. Huebner, of Wisconsin, says: "This variety, now four years from the seed-ball, has been for the past three years one of the largest yielders among 200 varieties grown by me. The tubers average from large to very large. The vines are very strong. The skin is firmer than most sorts, making it a first-class shipper. My aim in propagating the BADGER STATE has been to substitute a new one for the Burbank's Seedling." Time has proved the real value of this variety and we endorse it as one of the best main crop sorts. Per peck, 75c.; bush., \$2.25; bbl., \$5.

BOURBONNAIS, ILL. The Rural New Yorker No. 2, is the most promising late that I have tested for a number of years. T. C. DICKINSON.

SPECIAL OFFER. "COLLECTION X."

2 BARRELS FOR \$10.00 being half barrel each, ARIZONA, ALBINO, BADGER STATE and ALEXANDER'S PROLIFIC, with one pound each of WHITE PRIZE and THE VAUGHAN. This is the year to change your Seed Potatoes and this is the collection to try. Positively no change will be made except if ALEXANDER'S PROLIFIC should be sold out on receipt of order we shall substitute EMPIRE STATE. Please book your order EARLY for this.

RURAL NEW YORKER No. 2.—This potato is of most distinct appearance and could be readily distinguished among a hundred others. It is very large unusually smooth with few and shallow eyes; form oblong inclining to round and rather flattened. Skin and flesh white, quality excellent. Season, intermediate. Tubers of great uniformity in size, almost every one marketable. This variety did splendidly this season; one of the best varieties. Per peck, 75c.; bush., \$2.25; bbl., \$5.00.

MAMMOTH PEARL.—White, roundish, medium in season. The tubers are of good, large size. It is a standard potato in many sections, having considerable merit. Per peck, 65c.; bush., \$2.00; bbl., \$4.00.

WHITE ELEPHANT.—One of the best known large late sorts, holding its own as a market variety for general use. White skin, long, solid and grows closely in the hill, much like Late Beauty of Hebron and about the same in season. A most excellent variety. Per peck, 65c.; bu., \$2.00; bbl., \$4.00.

BURBANK'S SEEDLING.—This old standard is still quoted high in the market; but as every large grower of potatoes is aware, any large, long, white potato may be sold on the market for Burbank's. We offer the genuine, raised from original stock. Per peck, 60c.; bush., \$2.00; bbl., \$4.25.

AMERICAN GIANT.—One of the largest varieties in cultivation, as well as one of the most productive. Tubers of an unusually large size. Pure white and excellent keepers. Per peck, 60c.; bush., \$2.00; bbl., \$4.50.

BURPEE'S SUPERIOR, or Coy's No. 88.—A seedling of the White Star. Long, pure white and a good main crop variety. One of Mr. Coy's seedlings. Per peck, 60c.; bush., \$2.00; bbl., \$4.00.

HALL'S EARLY PEACHBLOW.—A genuine Peachblow, but much earlier, with a vigor and yield not now possessed by the old variety. Per peck, 60c.; bush., \$2.00; bbl., \$4.50.

BOLEY'S NORTHERN SPY.—A second trial of this variety does not encourage us to recommend it. Per peck, 50c.; bush., \$1.55.

GOLDEN KIDNEY.—A seedling from Mr. Huebner, sent out by us last year; just the size and shape so popular in Germany as a table potato. Yellow fleshed, small to medium and of superior quality. Per peck, 60c.; bush., \$2.00; bbl., \$4.50.

GOLD FLESH (Burpee's).—Good in every way, if any one wishes this color. Pk. 75c.; bush., \$2.25.



EXTRA EARLY CAROLINA SWEET POTATO.
[1/4 NATURAL SIZE.]

WILMINGTON, N. C. The Ohio Jr. is the all round potato for earliness, hardiness and productiveness. J. C. SHEPARD, M. D.

WARSAW, N. C. The Potatoes did very well, larger yield and much earlier than any other varieties. J. F. WOODWARD.

ANNA, ILL. The Early Ohio potato did well with me. They were a week earlier than Early Rose. I expect to plant more of them the coming year. The seed was put up nicely and gave a good stand. PAUL T. HASKELL.

CLINTON, N. C. The potato crop was very fine. The Albino is the finest potato I ever raised. J. H. ROYAL.

• ALEXANDER'S PROLIFIC. •

We still recommend this as one of the best of our entire list. It excelled all others in productiveness, season 1890. Skin white, well covered with rough netting (which denotes a good cooker), eyes few and lie even with the surface; flesh pure white, with finest flavor; fine grained, dry and floury. Being long, large and white, it brings the highest market price. Remember, we have had no rot whatever in Northern Michigan. Per peck, 65c.; bush., \$2.25; bbl., \$5.00.

• EMPIRE STATE. •

A high recommendation for it is the fact that it will mature two weeks quicker than either White Star, Elephant or Burbank's, and will sell on the market for "BURBANKS"—the name under which every large white variety is called when offered in Chicago to ordinary buyers. In shape it resembles Beauty of Hebron but is somewhat more oblong. Per peck, 65c.; bush., \$2.00; bbl., \$4.25.

Joseph Rigault.—A new French variety imported by us in 1888. Color yellowish. Per lb., postpaid, 30c.; peck, 75c.

Lady Finger.—To those who are acquainted with it, it is unnecessary to say anything in its favor; but to those who have not tasted a baked "Lady Finger," we would say, do so. Peck, 65c.; bush., \$2.25.

POTATO SEED.—American and French mixed from best hybridizers. Every potato fancier should give this mixture a trial. Pkt., 25c. One packet FREE with every \$5.00 potato order, when mentioned on order.

• ASSORTED BARRELS. •

We will put these up at catalogue pound, peck and bushel rates, less 10 per cent., if ordered early, BEFORE BUSY SHIPPING SEASON BEGINS.

© SEED SWEET POTATOES. ©

These should never be shipped except in boxes or barrels.

Grown, stored and handled especially for seed purposes. They are grown in this State, but we can also supply New Jersey stock of Yellow Nansemond at 50c. per barrel advance. None shipped until about planting time. We notify all who request it as soon as potatoes are ready for shipping. The following varieties are kept in stock:

Yellow Nansemond, Southern Queen, Red Nansemond, Bermuda.

Per bush., \$2.00, packed in box, 25c. extra; 1/2 bush., packed in box, \$1.25; bbl., \$4.50; 3 bbls., \$13.00. Special prices on large lots.

Early Red Jersey.—Mr. W. E. Chapin, a small fruit grower and experienced gardener at La Salle, Ill., has grown this new sort for two years and claims that in its short "chunky" shape, earliness, productiveness and fine quality it excels all others; color rosy, keeps well. Per peck, 60c.; 1/2 bush., \$1.75; bush., \$2.25; bbl., \$4.50.

NEW Extra Early CAROLINA.

A very superior sort in earliness, productiveness and quality. Of a bright yellow, shape as per photograph, much nearer the Irish potato than usual with Sweets. It is so early as to be especially desirable for all Northern sections. Per peck, 65c.; 1/2 bush., \$1.25; bush., \$2.25; bbl., \$4.75.

VAUGHAN'S RADISH SEED.

ALL SAVED FROM SELECTED AND TRANSPLANTED ROOTS.

If ordered by Freight or Express, deduct 8c. per Pound from Prices Quoted.

FIVE POUND LOTS OF ANY VARIETY AT 10 CENTS LESS PER POUND.

Culture.—Radishes delight in light, rich, mellow soil, and, to be crisp and tender, must make rapid growth. For very early use, sow on a gentle hot bed in January, and continue sowings every two weeks until September, choosing the varieties suited to the season. Sowings should be made in drills ten inches apart, and the plants should be thinned to two inches apart in the row. Sow Winter Radishes in July, and take up before severe frosts and store in sand or earth in a cool cellar.

We carry the largest variety of Radish seed (grown especially for us under contract) in the country.

EXTRA EARLY AND FORCING VARIETIES.

VAUGHAN'S EXTRA EARLY SCARLET GLOBE, White Tip.

This new kind was introduced by us in 1889 and has proved to be a valuable addition to our list of early forcing Radishes, being of extremely quick growth, maturing in about three weeks; the leaves are very short, which renders them particularly adapted to forcing under glass; they are of superior flavor, being crisp and tender, and in color they are of a fresh, deep carmine-red; very attractive and pleasing. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.60

• VAUGHAN'S EXTRA EARLY CARMINE TURNIP. •

Like the above, an extremely quick growing sort, of very attractive appearance, being of a bright scarlet with a white tip. Both kinds have given general satisfaction. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.20.

TWENTY DAYS FORCING.

EARLY OLIVE SHAPED, DEEP SCARLET SHORT TOP OR THE STARTLE.

A new and very distinct type of the well-known olive shaped Radish, which is of perfect form, smooth skin, fine color, and has very short leaves. This, combined with its extremely quick growth, taking only three weeks to mature, renders it extraordinarily valuable for forcing, while it does equally well in the open ground. The flesh is pure white, crisp, and of very pleasant taste. Owing to its short leaves, it can be sown very thickly. A great favorite with gardeners at Chicago. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

• EARLIEST CARMINE ERFURT. •

One of the earliest sorts, turnip-shaped; color fine carmine; it is remarkably mild, crisp and tender; has very short top, and cannot be too highly recommended for early forcing. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

• NON PLUS ULTRA. (New.) •

This is a turnip sort of fine round form, bright scarlet color, of tender flesh and delicate flavor; its remarkably quick growth and very short top render it one of the best for forcing. See illustration on back cover. Pkt., 10c.; oz., 15c.; ¼ lb., 30c.; lb., 90c.

• EARLIEST WHITE TURNIP, SHORT LEAVED. •

Of quick growth, the roots are round and pure white; tails very thin; leaves short, flavor excellent. An extra fine sort for forcing and the open ground. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 70c.

Early Scarlet Globe.—A most desirable turnip sort for hot-bed forcing; very early, and in flavor mild, crisp, juicy and tender; top small, and it will stand the heat well without becoming pithy. One of the best selling Radishes on account of its very attractive color and shape. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Scarlet Turnip, White Tip, Select Stock. (ROSY GEM.)—A very fine strain of this well known kind, even in size, smooth, and a fine bright scarlet color, with clear white tip. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

EARLY SCARLET TURNIP.—The standard variety. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

EARLY DEEP SCARLET TURNIP.—Smooth skin; rich deep red color; small top; extra early; one of the finest market sorts. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

EARLY WHITE TURNIP.—Like above, but white. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

OLIVE SHAPED DEEP SCARLET.—Very early, oblong in shape, skin scarlet, flesh rosy and tender. An excellent gardeners' sort for early forcing and out-door planting. We supply this in quantity, and offer at a very close price. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

Olive Shaped White.—Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Olive Shaped Early Rose.—Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Half Long Deep Scarlet.—A trifle longer than olive shaped sorts. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

WOOD'S EARLY FRAME.—In shape and color similar to Long Scarlet, though not quite so long, it is, however, fully 10 days earlier; top small; a very desirable forcing variety. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

French Breakfast.—A popular, very quick growing variety for early forcing; oval in shape; color, scarlet, tipped with white; very crisp and tender. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

EARLY LONG SCARLET SHORT TOP.—Standard long variety for market and home gardens. Root is long, growing partly above ground, straight, smooth, and of a rich scarlet color, very crisp, and a quick grower. Best seed of this important sort. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

Mixture of Earliest Turnip and Oval Varieties.—Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

• SUMMER VARIETIES. •

VAUGHAN'S MARKET.—A half-long white of quick growth, very smooth and regular in appearance, with very pure white and thin skin, and exceedingly delicate and brittle. It sells at sight. Forces quickly, and is also desirable for open ground. Pkt., 5c.; oz., 10c.; ¼ lb., 40c.; lb., \$1.25.

SUPRISE.—A Spanish variety, medium size, oval in shape and of a light brown color. Of very early, quick growth. It is remarkable for remaining longer in fine condition without becoming pithy, than any other very early sort. It has also the same fine quality when sown in the middle of the summer. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 70c.

IMPROVED CHARTIER OR SHEPHERD.—One of the most distinct varieties. Color, scarlet at top, shading to pink at centre, and white at tip. It is very crisp, tender, and of mild and pleasant flavor. They remain of good quality for table use for a long time. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 70c.

LONG WHITE VIENNA, or Lady Finger.—One of the finest of long white Radishes; snow white, very brittle and crisp, of beautiful shape and rapid growth. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

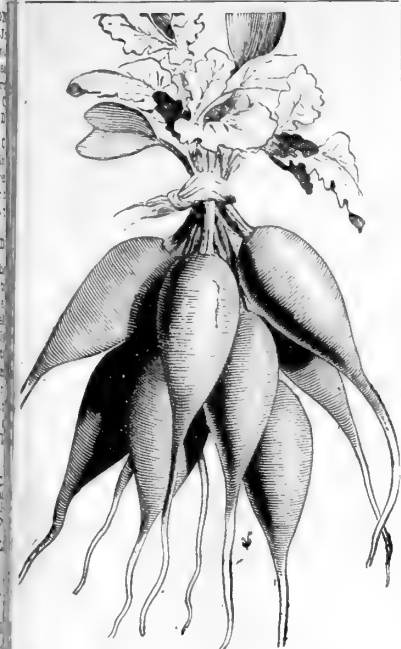
Long White Naples.—Mild flavored, good for summer and fall use. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

EARLY WHITE GIANT STUTTGART.—An early and remarkably quick growing variety, large size; flesh and skin pure white, crisp, excellent flavor, withstands severest heat. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 70c.

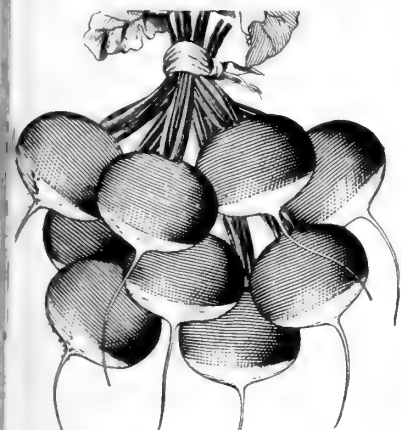
Long White Strassburg or Hospital.—A white variety, large and showy, half long in shape, a leading sort in the Chicago market; it matures quickly, sometimes in six weeks, and holds its table qualities well. It is commonly sold when six to seven inches in length, and then has a diameter of nearly two inches in the upper third of its length, from which it tapers rapidly to a point. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

Black Summer Turnip.—An excellent variety for summer growing as it endures the heat well; is of quick growth and good quality. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

OSKOSH, WIS., Oct. 30, '90. Your Olive-shaped Radish in hot bed did first-rate; were fair size in 24 days from sowing. H. D. BALLARD.



TWENTY DAYS FORCING.
OLIVE SHAPED DEEP SCARLET SHORT TOP.



SCARLET TURNIP, WHITE TIPPED.



STRASSBURG, OR HOSPITAL.

RADISH CONTINUED.

NONPAREIL.—A deep scarlet olive, from Germany. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Grey Summer Turnip.—Withstands the summer heat. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 75c.

Yellow Summer Turnip.—A large yellow Radish, withstands summer heat and drought; a quick grower. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

GOLDEN YELLOW SUMMER TURNIP.—An improvement on the above; bright golden yellow color, small leaves; very early, often being fit for use four weeks after sowing. One of the best Radishes to withstand summer heat. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

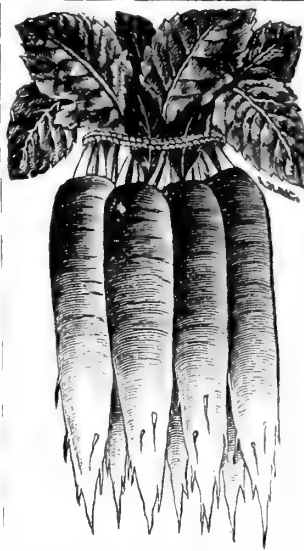
Summer Varieties, Mixed.—Pkt. 5c.; oz. 10c.; lb. 70c.

WINTER VARIETIES.

CHINESE MAMMOTH RADISH.—Genuine imported Chinese grown seed. This immense Winter Radish is grown by the Chinese gardeners, and is one of the largest in cultivation. The flesh is white and solid, and flavor excellent. True imported seed. Pkt., 10c.; oz., 30c.

California Mammoth White Winter or Large Russian.—Growing to immense size, flesh solid, white and of good flavor. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.

Scarlet China Winter.—A good winter sort; sow in summer same as turnips; flesh white and quite pungent. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.



CHARTIER RADISH.

Round Black Spanish.—Round and firm; flesh white, appetizing; good keeper. Pkt. 5c.; oz. 10c.; ¼ lb. 20c.; lb. 65c.

Long Black Spanish.—Large, skin black, flesh firm and white; milder than above. Pkt. 5c.; oz. 10c.; ¼ lb. 20c.; lb. 65c.

China Rose Winter.—Skin bright rose color; size medium, quality excellent; one of the best sorts for winter use. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 70c.

White Spanish Winter.—Similar to above. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

RHUBARB.—RHABARBER.

Sow in April in drills 1 inch deep and 1 foot apart; when the plants are 3 to 4 in. high, thin out to 10 in. apart and cultivate well during the season; in fall or following spring, transplant into hills about 3 feet apart each way. The soil must be very deep and heavily manured. Give a top dressing of manure every fall. One ounce of seed will produce about 1,000 plants.

Victoria.—Large and tender. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

Linnaeus.—Well known market variety; early. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

RHUBARB ROOTS.

Set in spring and they will furnish leaf stalks the following season. We offer the largest and best variety.

VICTORIA.—Per dozen, not prepaid \$1.00; each, 10c.



PUMPKIN. ● ● ●

CULTURE.—These are easily grown and are profitable for stock feeding. At time of corn planting scatter a few seeds in every fourth or fifth hill, or for a large crop sow in May, in good warm soil in hills 8 to 10 feet apart each way, 4 plants to a hill. Avoid planting near other vines as they will hybridize. One ounce will plant 15 hills.

● ● Per pkt., 5c.; oz., 10c., except where noted. ● ●

LARGE FIELD.—Standard sort for field culture. ¼ lb., 15c.; lb., 35c. By express, 10 lbs., \$1.25; 25 lbs., \$3.00.

Large Cheese.—Cheese shaped, in flavor like the Crookneck squash; yellow fleshed, fine grained, and very productive; superior to most field varieties. ¼ lb., 20c.; lb., 70c.

Large Tours, or Mammoth French.—Often weighs over one hundred pounds; flesh is of a salmon color and keeps well. ¼ lb., 20c.; lb., 75c.

Cashaw.—Very large, one of the best; weight, sixty to eighty pounds, flesh yellow and solid, productive and a good keeper. ¼ lb., 25c.; lb., 75c.

Sugar.—A small orange colored sort, remarkably sweet, fine grained and dry. Keeps well, and cannot be beaten for table use. ¼ lb., 20c.; lb., 60c.

RED ETAMPES MAMMOTH.—Skin smooth, bright glossy red, flesh deep orange, very thick and of superior quality. Matures early, and attains an immense size. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Grey Boulogne.—Shape round, flattened. Skin greyish green, slightly netted; flesh golden yellow, dry, and of excellent quality. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.



Mammoth Potiron.—This, one of the largest pumpkins, has reached the enormous weight of 226 pounds. It is round, and flattened at both ends. The flesh is of a bright orange, fine grained and firm; quality excellent; skin of a light salmon color. A very handsome sort, unequaled for exhibition purposes. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Sweet Potato.—A new pear-shaped pumpkin, creamy white in color, sometimes striped with green; size medium, flesh creamy white, fine grained, thick, dry and brittle; flavor of the best. For cooking purposes it has no equal, and is popular wherever known. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

QUAKER PIE.—This very distinct and valuable variety hails from Washington county, N. Y., where, for many years, it has been in the possession of a family of "Quakers" or Friends. It is oval in shape, and tapers toward each end. It is of a creamy color both inside and out. Being FINE GRAINED and RICH FLAVORED, it makes a superior quality of pies. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Banana, or Custard Squash.—Form ribbed, color creamy white with light yellow flesh, of particularly good quality for pies. ¼ lb., 35c.; lb., \$1.25.

Dunkard Winter.—Orange yellow, lightly striped outside, with deeper yellow; fine grained, thick flesh, and a great keeper. ¼ lb., 30c.; lb., \$1.00.

Black Sugar, (Negro, or Nantucket Pie Pumpkin).—It is oblong or bell-shaped and ribbed, the outer color of the skin dark green, almost black. The flesh is orange; it is a splendid pie pumpkin. It keeps well through the winter. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c.

Japanese Pie.—The flesh is very thick, nearly solid, unusually fine grained, dry and sweet, resembling sweet potatoes in taste. They ripen early, and keep well. The seeds are very curiously marked. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Mixed, Largest Varieties.—Assorted in one package. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Mixed.—All varieties named above, in one large package, 10c.

* OUR MAMMOTH \$50.00 PUMPKIN. *

Mammoth Fifty Dollar Prize Pumpkin.—The flesh and skin of a bright golden yellow color, very fine grained, of excellent quality, and notwithstanding its enormous size, it is one of the very best pie pumpkins ever grown, and a splendid keeper. This enormous variety is said to have been grown to weigh three hundred pounds. Price, Packet, 10c.; oz., 30c.; ¼ lb., 60c.; lb., \$2.00.

* OUR "PUMPKIN SHOW." *

To encourage our customers in the vine growing sections of the West, and believing they can if they will beat all Eastern records, we offer a cash prize of \$50.00 for the heaviest, and \$20.00 for the second heaviest, grown in 1891 from our seed. All reports of weights to be sent in by October 15th, at which time the prize winning specimens will be ordered sent to us (at our expense) and cash forwarded to the successful competitors.

OUR PREMIUMS FOR 1890

were awarded: First Prize, to Mr. A. Lenton, Piru City, Cal. for a Pumpkin weighing 156½ lbs.; Second Prize to Mr. Ira C. Eldridge, Winona, Minn., for one of 146½ lbs.



MAMMOTH PUMPKIN.

Rockford, Ill., Oct. 9, '89. The Mammoth Prize Pumpkin seeds my boy bought of you last spring all grew. We have just converted part of our Pumpkin into pies, which are fine. Every man who has a few rods of ground should plant some of these pumpkins. ALEX. STRACHAN.
LA CROSSE, WIS. At our Inter-State Fair I took first premium with your Mammoth Potiron Pumpkin. HENRY GUILLAUME.

—*— VAUGHAN'S • SELECTED • SQUASH • SEED. —*—

Per Packet 5 Cents, Except Where Noted. Prices Include Prepayment by Mail.

CULTURE.—Plant when weather is warm and settled, in richly manured hills, 3 to 4 feet apart for the bush varieties and 6 to 9 feet for the running sorts. Sow 8 to 10 seeds to the hill, thinning to 3 plants when danger from bugs is past. Three ounces will sow 100 yards. 4 to 6 pounds are required per acre.

WHITE BUSH SCALLOPED. (SELECT STOCK.)

We have secured at a high price, some seed of an **extra large strain** of the above well-known kind that has been very carefully selected by a reliable Market Gardener for a number of years. A very select and profitable strain for market. Oz., 10c.; ¼ lb., 25c.; lb., 85c.

VAUGHAN'S SUMMER CROOKNECK. (SELECT STOCK.)

This is an old staple article of the Seedsman's stock, and though we DO NOT claim our seed to be the "BEST IN THE WORLD," yet it is as pure as we have seen and the product is as near to what the squashes should be as usually grow. Oz., 10c.; ¼ lb., 25c.; lb., 75c.

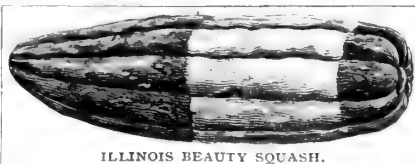
ILLINOIS BEAUTY.

INTRODUCED BY US LAST SEASON.

An autumn variety in season from September to December, average size 12 to 14 inches long, and 4 to 5 inches in diameter. **Very thick meat, having almost no seed cavity; remarkably distinct and shows in appearance, one or both ends being of deep green color while the centre band is of rich deep orange, slightly ribbed, but of excellent shape for the market and of good quality.** Very prolific and a strong grower. You are likely to get the true sort of us, as we introduced and named it. Pkt., 10c.; oz., 25c.

PIKE'S PEAK OR SIBLEY.

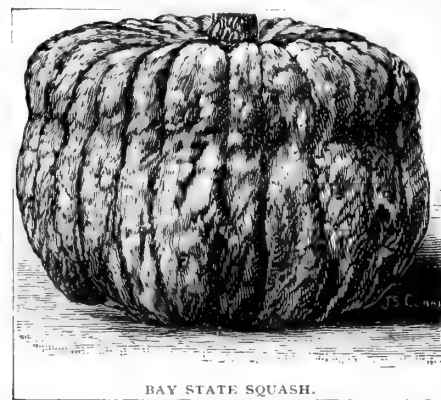
In color pale green, shell very hard and flinty, though thin. As we stated last year and announced so extensively in our advertisements, this is unquestionably the **SWEETEST, DRYEST and BEST of ALL LATE SQUASHES.** Remember we have said it.—A high authority says: "The Hubbard has at last met a competitor." The weight ranges from eight to eleven pounds. It ripens with the Hubbard, and is more prolific, a long keeper and a good shipper. Oz., 10c.; ¼ lb., 30c.; lb., \$1.



ILLINOIS BEAUTY SQUASH.



WHITE BUSH SQUASH. (Selected Stock).



BAY STATE SQUASH.



CHICAGO ORANGE MARROW SQUASH.

NEW EGG PLANT SQUASH.—Derives its name not only from the shape, which resembles an Egg Plant, but also from its peculiar cooking qualities, as it is delicious when fried. It is a very early sort, white fleshed; the rind is a mottled grey, turning to a buff color. Oz., 10c.; ¼ lb., 30c.; lb., 90c.

Red China.—This new sort, imported from China, is smaller than most other squashes, averaging two to three pounds in weight. They are of a bright red color, marked longitudinally with yellow and dark green. The flesh is yellow, firm, floury and sweet. Oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

BAY STATE.—The excellent features of this new variety are its extreme solidity, heavy weight, fineness and dryness of grain, and sweetness of flavor. Oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

MAMMOTH CHILI.—The largest of all Squashes, often attaining a weight of 200 pounds, without losing its fine shape and good quality. The flesh is very thick, of a bright orange color, and keeps well throughout the winter. It is very productive, and will be found very profitable for stock feeding. Pkt., 10c.; oz., 20c.; ¼ lb., 40c.; lb., \$1.30.

White Bush.—Light cream-colored, scalloped; very early and productive, grows to a good size. Oz., 10c.; ¼ lb., 20c.; lb., 60c.

LARGE GOLDEN BUSH.—(GARDENERS' SELECT STOCK). Early pale yellow, very handsome and uniform. Our strain of this is the best of all the very early squashes. Oz., 15c.; ¼ lb., 35c.; lb., \$1.10.

Yellow Bush.—The old standard strain. Oz., 10c.; ¼ lb., 20c.; lb., 60c.

Quinlap's Prolific Orange Yellow.—A grand improvement on the Boston Marrow, in regard to earliness, productiveness, and good keeping qualities. Oz., 10c.; ¼ lb., 25c.; lb., 80c.

CLEAR CREEK, ILL., Oct. 22, '90. The Chicago Orange Marrow Squash is fine for pies and stewing and good as early as Oct. 1st. H. K. SMITH.

ANNA, ILL., Nov. 9, '90. I am very well pleased with the Illinois Beauty Squash. Mrs. H. J. HILLIMAN

TOLONA, ILL., Oct. 25, '90. I like the Illinois Beauty Squash better than any. We now have a fine lot on hand, sound as a dollar; they seem to be good for most of the winter.

Summer Crookneck.—Early and prolific; quality good, skin yellow, and warty; fine for summer. Oz., 10c.; ¼ lb., 20c.; lb., 60c.

Cocoanut.—An excellent and beautiful little squash for table use; very prolific, yielding from six to a dozen to the vine. The color is an admixture of cream and orange. The flesh is fine-grained, sweet and very solid, and the quality excellent. Oz., 10c.; ¼ lb., 25c.; lb., 75c.

Brazilian Sugar.—Flesh rich, dry, very sweet and fine grained; flesh and skin bright yellow. They ripen early, and reach a weight of 3 to 4 pounds. This is one of the richest flavored and sweetest of all squashes. Oz., 10c.; ¼ lb., 20c.; lb., 75c.

New Prolific Sugar.—This new squash ripens early and continues in bearing until killed by frost, the rind is a dark cream color, smooth, slightly ribbed, flesh light cream; enormously prolific. Oz., 10c.; ¼ lb., 35c.; lb., \$1.25.

Essex Hybrid.—A new, medium late sort, one of the richest flavored, finest grained and sweetest of all the squashes, and an excellent keeper; very early, and of quick growth. Oz., 10c.; ¼ lb., 25c.; lb., 80c.

American Turban.—Flesh thick, yellow, skin greenish, striped white. Oz., 10c.; ¼ lb., 20c.; lb., 60c.

FORDHOOK.—New. Mr. Gregory says it is excellent for family use. Pkt., 10c.; 3 for 25c.

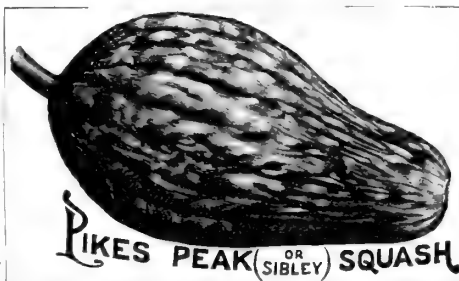
VAUGHAN'S SQUASH COLLECTION.—One pkt. each, Sibley, Illinois Beauty, Vaughan's Select Crookneck, Fordhook, Bay State and Chicago Orange Marrow. The six, covering all seasons, for 20c. postpaid.

CHICAGO ORANGE MARROW.—

First introduced by us in 1882, and has met with general approval. Its distinctive feature and the one which will give it the greatest and most widespread popularity, is its earliness—it is at least ten days earlier than any other long-keeping sort. It grows as long as the Hubbard, and is of as good quality. It is in season from September to January, and is the most salable kind during that time in the market; this is owing to its smooth and handsome shape, good size and creamy orange skin.

A similar strain but lighter in color is offered under another name.—Gardeners should try it. Selected Seed—Pkt., 5c.; oz., 10c.; ¼ lb., 40c.; lb., \$1.50.

Ordinary Seed—Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 75c.



PIKE'S PEAK (OR SIBLEY) SQUASH.

HUBBARD.—Few seedsmen that have not the PUREST Hubbard squash in existence, while in reality absolute purity is very difficult to attain. Our seed is from squashes grown especially for seed, and that have been grown and carefully selected for the last ten years; therefore we claim the BEST STRAIN in the market. Give it a trial. Pkt., 5c.; Oz., 10c.; ¼ lb., 20c.; lb., 70c.

Marblehead.—A winter sort resembling the Hubbard, but with harder shell and bluish color; very solid and heavy. Oz., 10c.; ¼ lb., 25c.; lb., 75c.

Canadian Winter Crookneck.—Prolific, and of good quality. Oz., 10c.; ¼ lb., 25c.; lb., 90c.

BUTMAN.—Claimed by acknowledged authority to be "the only American Squash and best ever grown. Oz., 10c.; ¼ lb., 25c.; lb., 75c.

NEW OLIVE.—A fine new Winter Squash; olive shape and color, smooth skin, flesh thick, firm and mealy, golden yellow color. Oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

WHITE PINEAPPLE, or White Turban.—A new variety, similar in season to the Perfect Gem and very attractive on account of its peculiar shape, fine-grained creamy flesh, and delicate cocoanut flavor. Oz., 10c.; ¼ lb., 25c.; lb., 90c.

Boston Marrow.—A standard sort of fine quality, rich orange color, and splendid keeping qualities. Oz., 10c.; ¼ lb., 20c.; lb., 60c.

VALPARAISO.—It is of very large size, enormously prolific, of excellent quality, and also very profitable to grow for feeding purposes. Oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

PERFECT GEM.—Prolific, excellent for either summer or winter use. Oz., 10c.; ¼ lb., 25c.; lb., 75c.

Vegetable Marrow.—Oz., 20c.; ¼ lb., 60c.; lb., \$2.00.



VAUGHAN'S SUMMER CROOKNECK SQUASH.

Mrs. O. E. Culbertson.

SALSIFY, (VEGETABLE OYSTER.)

HAFER-WURZEL.

Culture.—Sow early in spring in drills 15 in. apart and 1 to 2 inches deep, thin to 6 inches apart. Soil should be very deep and mellow, in order that the root may grow straight down. Store same as carrots for winter use or they can be left in the ground until spring. One ounce of seed will sow about 50 feet of drills.

Vegetable Oyster.—The standard variety. Pkt., 5c.; oz., 10c.; ¼ lb., 35c.; lb., \$1.25.

Mammoth Sandwich Island.—This variety is of enormous size, twice as large as the ordinary French; pure white, very tender and delicious. Invaluable for market gardeners. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50. (See cut).

SCORZONERA

OR BLACK SALSIFY. (SCHWARZ-WURZEL.)

Treatment same as Salsify, which it closely resembles except that the skin is black. Soak in cold water a few hours before cooking to remove the bitter taste. One ounce will sow 50 yards.

Long Black.—Pkt., 5c.; oz., 15c.; ¼ lb., 50c.

SORREL.

SAUERAMPFER.

Broad Leaf French.—Pkt., 5c.; oz., 15c.

STRAWBERRIES.

Bush Alpine Strawberry, Red.—Pkt., 10c.

Bush Alpine Strawberry, White.—Pkt., 10c.

These two kinds are very distinct and have the advantage of growing without producing any runners, and on this account are valuable for planting on edges. They are hardy, productive, and continuous bearers and come true from seed.

Large-Fruited Sorts, in best mixture. Pkt., 10c.

TURNIP.

Culture.—For early use sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart, the Rutabagas 30 inches. As the seed is very fine, it should be covered but slightly, excepting in very dry weather. Of the early varieties thin the plants to 6 inches apart and the Swedes to 1 foot. For fall and winter use, the early kinds should be sown from the middle of July to the middle of August, and the Swedes from the middle of June to the first of July. **Per packet of any variety 5 cents.**

Extra Early Red Top Milan.—The earliest in cultivation, two weeks earlier than Purple Top Strap Leaf. The bulb is flat, of medium size, quite smooth with a purple top. Flesh white, hard and of finest quality; it is an extra good keeper. Oz., 10c.; ¼ lb., 20c.; lb., 75c.

EARLY PURPLE TOP MUNICH.—The earliest variety after the Red Top Milan. Good quality and shape. Color white with purplish-white top; very productive. Oz., 10c.; ¼ lb., 20c.; lb., 50c.

EARLY RED OR PURPLE TOP.—Strap leaf. Oz., 10c.; ¼ lb., 15c.; lb., 45c.

White Egg.—Large, early, solid, good flavor. Oz., 10c.; ¼ lb., 20c.; lb., 50c.

SWEET GERMAN.—A well-known white, sweet variety; excellent keeper; sow early in June. Oz., 10c.; ¼ lb., 20c.; lb., 50c.

LONG COWHORN.—Carrot-shaped sort; very rapid grower of delicate flavor; excellent for table use. An excellent variety for the market or home garden. Oz., 10c.; ¼ lb., 20c.; lb., 50c.

Yellow Aberdeen.—Globe shape. Oz., 10c.; ¼ lb., 15c.; lb., 40c.

Robertson's Golden Ball, or Orange Jelly.—Rich, sweet; of quick growth; excellent for table and stock. Oz., 10c.; ¼ lb., 15c.; lb., 50c.

PURPLE TOP GLOBE.—An improved variety of Red Top Flat Strap. As early, but globular in shape, keeps well and is desirable for table or stock. Oz., 10c.; ¼ lb., 20c.; lb., 50c.

Jersey Lily.—White, round, extra early and of good flavor. Has single tap root and small top. Oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Small Berlin, or Teltau.—The smallest sort, of excellent flavor. Oz., 10c.; ¼ lb., 20c.

Grey Morigny.—Sweet, white flesh, shape long. Oz., 10c.; ¼ lb., 20c.; lb., 90c.

WHITE FLAT DUTCH.—A popular well-known early sort; fine for table use when young. Oz., 10c.; ¼ lb., 15c.; lb., 45c.

Pomeranian White Globe.—A medium early, productive, hardy, good for stock feeding. Oz., 10c.; ¼ lb., 20c.; lb., 45c.

SWEDS, OR RUTABAGAS.

Laing's Swede.—One of the earliest; good quality, fine for table use, a good keeper. Oz., 10c.; ¼ lb., 15c.; lb., 50c.

Carter's Imperial Swede.—Yellow-fleshed, purple-topped variety, growing to large size; for table or stock. Oz., 10c.; ¼ lb., 20c.; lb., 45c.

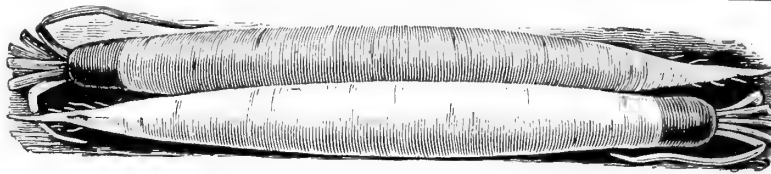
American Rutabaga.—Good for table use or stock, yellow-fleshed, called "the best of all Rutabagas." Our seed is from an experienced American grower, who makes a careful selection. Oz., 10c.; ¼ lb., 15c.; lb., 50c.

Skirving's Rutabaga.—Enormously productive. Flesh yellow, solid and sweet. One of the best for field culture. Oz., 10c.; ¼ lb., 15c.; lb., 50c.

White Swede.—Large white; solid and sweet. Oz., 10c.; ¼ lb., 15c.; lb., 50c.



NEW ZEALAND SPINACH.



MAMMOTH SANDWICH ISLAND SALSIFY.

© **SPINACH.** ©

Culture.—Select VERY RICH, well-drained, soil and sow in drills 1 foot apart and 1 inch deep. For spring and summer use, make the first sowing early in March, and continue at intervals of 2 or 3 weeks until the middle of July. Sow in August or September for winter or early spring use, and protect with a covering of straw during severe weather. One ounce will sow 100 feet of drill. 10 to 12 lbs. are required for an acre.

Special prices for large lots.

EXTRA LARGE ROUND LEAF.

—Our stock is very fine. Oz., 5c.; ¼ lb., 15c.; lb., 30c. By express, 10 lbs., \$1.20.

Prickly Seeded.—Very hardy, good for winter planting. Oz., 5c.; ¼ lb., 15c.; lb., 35c.

Long Standing.—New; slow going to seed. Oz., 5c.; ¼ lb., 15c.; lb., 35c. By express, 10 lbs., \$1.20.

Bloomsdale or Savoy Leaved.—A

well known sort. Oz., 5c.; ¼ lb., 15c.; lb., 30c. By express, 10 lbs., \$1.40.

New Zealand.—This sort is grown to supply the place of the ordinary Spinach during the hottest months of the year, or in dry arid localities where the ordinary Spinach does badly. The leaves are eaten boiled like those of other kinds. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Viroflay.—Quick, strong growth; much used by New York truckers. Oz., 5c.; ¼ lb., 15c.; lb., 30c. By express, 10 lbs., \$1.30.

HUMBOLDT, ILL., Dec. 7, '90. I can heartily endorse your Chicago Dwarf Golden Heart Celery; it is of excellent quality. MRS. J. H. DUNCAN.

MONTICELLO, IOWA. The plants I bought of you a year ago produced the finest Celery I ever saw. S. L. GARDINER.

PEDIGREE TOBACCO SEED.

We offer the following list of Tobacco Seeds, all of which have been carefully grown, on crown shoots only, are true to name and of best vitality. Prices include postage. The first three are newest sorts.

Prices on all varieties: Pkt., 5c.; oz. 10c.; ¼ lb., 60c.; lb., \$2.00.

PRIMUS.—Leaves large, fibres fine and texture silky. Yields big crops of extra fine quality. Suited for manufacturing or cigars. New and scarce.

HARBY, New.—A Turkish variety which stands heat and drought beyond all others, and may be topped to 25 leaves or more. Superior to Latakia, and possesses a very agreeable odor and flavor.

BRAZILIAN-AMERICAN.—The finest Brazilian strain acclimated. Makes fine cigars and delightful aromatic pipe-smoking tobacco. Try this.

Big Havana.—A Hybrid Havana or Cuban seed-leaf. A heavy cropper, of fine texture, delightful flavor and the earliest cigar variety to mature and ripen. Will make two crops from one planting in the South, whilst its earliness makes it most desirable for high latitudes. Best Americanized Havana.

General Grant.—One of the finest, earliest and most popular kinds for cigars; grows more in demand every year.

Big Oronoko.—An old variety and a good one. Has a large, broad, finely-shaped leaf, and for strips and dark wrappers, has no equal.

Connecticut Seed Leaf.—The two largest, finest and best strains of this indispensable kind. Every seed-stalk carefully selected.

HOCKANUM and MAMMOTH, either sort, at prices as above.

Caboni.—A Spanish variety of superior quality and promises to prove a popular cigar variety.

COLLECTION.—Eight above kinds, one ounce of each, postpaid, \$1.50; 1 pkt. each, 35c.

A NEW SWEDS TURNIP. Westbury Swede.

English growers make much of this crop for sheep and cattle food, and we have in this one a very choice strain selected by an English seed grower as the best possible type of Rutabaga. Try it for market or table use. Oz., 10c.; ¼ lb., 20c.; lb., 70c.

Market Gardeners send us your list for pricing.

NEVADA, IND. The seeds are nice and fresh looking, and the packets are the largest of any I have seen. MRS. OLIVER RICKETTS.



PURPLE TOP GLOBE.



CONN. SEED LEAF TOBACCO.

—*— VAUGHAN'S SELECTED TOMATO SEED. *—



GROUND CHERRY.

WE can especially recommend our stock of Tomato Seeds here offered. They have been grown especially for us from the best of seed stocks by a very careful grower of 20 years' experience, who thoroughly understands this branch of the seed business, and we are confident that no better seed can be obtained. **Canners and other large buyers, please send list for estimate.**

CULTURE.—Sow the seed in March or April in the hot-bed, or in a box in a sunny place in the house. To make very healthy, stocky plants, they may be transplanted when about two or three inches high. When five or six inches high, if the ground has become warm, transplant to the open ground. Set plants four feet apart.

ADVANCE.—AN EXTRA EARLY seedling from Alpha and Perfection; has ripened in 90 days; the tomatoes are of medium size, round and very solid, with no green core; skin smooth and bright red. We recommend it to gardeners, as our test has shown it one of the first and best for market. Pkt., 5c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

ALPHA.—Now quite well known as one of the very earliest; is apt to be rough if highly fertilized. Our seed has been selected from the very earliest Tomatoes. Pkt., 10c.; oz., 40c.

Early Conqueror.—Vines medium size, vigorous and productive; very early and popular for first crop. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75

CANADA VICTOR.—Very early. Selected seed, taken from the very earliest tomatoes in a large field. Pkt., 10c.; oz., 40c.

TURNER'S HYBRID OR MIKADO. New.—Remarkable for its great size and the solidity of its fruit. The tomatoes average 12 to 18 ounces, and in diameter 4 to 4½ inches; they are entirely free from green core, and are extremely solid, containing very few seeds. The shape is round and even, but somewhat irregular in the very large fruits; color bright red, skin smooth and thin, but very tough, making it a good shipping sort. The flavor is unsurpassed, and its solidity and evenness of flesh render it one of the handsomest tomatoes for slicing. In addition to the above good qualities, it is very productive. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Red Currant.—This is more frequently grown as an ornamental plant than for table use. The fruit, which is very small, round and of a bright scarlet color resembles currants and is produced in long clusters of from 12 to 15; very ornamental. Pkt., 10c.

Potato Leaf.—This is a mammoth variety, like Mikado or Turner's Hybrid, but very careful test shows it much smoother and as good in other ways. We recommend it. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Cardinal.—New early sort of brilliant cardinal color; flesh deep red with no green core, firm and solid; it is round, smooth and handsome and ripens uniformly. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.25.

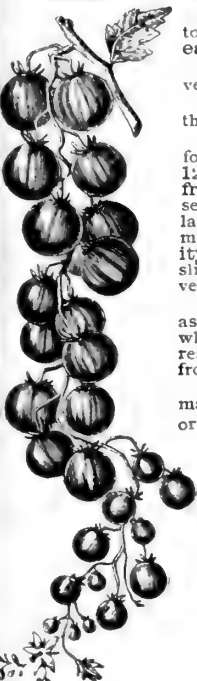
PERFECTION.—The largest early sort; color blood red, skin very smooth; it is one of the first to mature, solid and of good quality; ripens evenly and is very productive. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

ACME, Selected Stock.—A favorite in the Chicago market; large, round, smooth, slight purple tint; early and a great earler; one of the best. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Mayflower.—One of the earliest large Tomatoes, bright red, perfectly smooth, and ripens uniformly. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

GOLDEN QUEEN.—A new yellow tomato, very solid, large and handsome, resembling the Paragon except in color, which is a rich deep yellow; equally desirable for slicing or preserving. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

HATHAWAY'S EXCELSIOR.—Prolific sort; apple shaped, smooth, solid and of good quality. Pkt., 5c.; oz., 25c.



RED CURRANT.

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PERFECTION.—The largest early sort; color blood red, skin very smooth; it is one of the first to mature, solid and of good quality; ripens evenly and is very productive. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

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HATHAWAY'S EXCELSIOR.—Prolific sort; apple shaped, smooth, solid and of good quality. Pkt., 5c.; oz., 25c.



TURNER'S HYBRID.



DWARF CHAMPION.

New Dwarf Champion.—It is entirely distinct in habit of growth and foliage from any sort ever produced. The vines are dwarf and compact in habit, grow stiff and upright, with thick and short-jointed stems. The compactness of habit is retained in all stages throughout the season; foliage dark green in color. Heavy manuring tends to increase the abundance and size of the fruit instead of ruining the vine. It is remarkably early, ripening fruit as early as July 1st. It will yield double the quantity of extra early fruit per acre than can be obtained from any other tomato. As a cropper, it is probably unsurpassed, and will, owing to the smaller amount of space required between the plants, yield more to the acre than any other variety. In form and color the fruit closely resembles the Acme; it is always smooth, symmetrical and attractive in appearance; the skin is tough and the flesh solid; ripens well close round to the stem, and is not so much subject to crack as some other sorts. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Haines' No. 64.—A cross of Victor and Acme, as early as the former and smooth like the Acme. Pkt., 5c.

LIVINGSTON'S BEAUTY.

—This new sort has proven an introduction of the highest merit; it is as early as the Acme, very vigorous, and continues bearing throughout the season without any decrease in the size of the fruit. The tomatoes are borne in clusters of four or five, and are round smooth and of a glossy crimson color slightly tinged with purple.

The color alone will sell it in any market. It is very solid and free from cracks and rot, will ripen up nicely if picked green, and on account of its solidity and toughness of skin, cannot be excelled for shipping. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

SCOVILLE'S HYBRID.—The best second early Tomato in the market, good size, fine quality, beautiful dark flavor, and next to the Canada Victor in earliness. As a canning tomato the Scoville's Hybrid has no superior. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.75.

PARAGON.—One of the largest round tomatoes in cultivation. Medium early; fine fleshed, ripens very evenly; color less purple than Acme. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

Trophy.—Good for home use; has long been a favorite. Pkt., 5c.; oz., 25c.

White Apple.—One of the best varieties for eating from the hand as a fruit, very showy. Pkt., 5c.; oz., 25c.

Large Round Yellow.—A showy sort. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.

Pear Shaped, Red Cherry, Yellow Plum.—Each, Pkt., 5c.

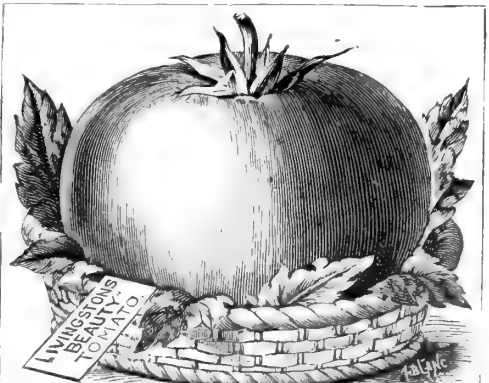
King of the Earlys.—A selection of an Extra Early Tomato. Pkt., 10c.; oz., 40c.

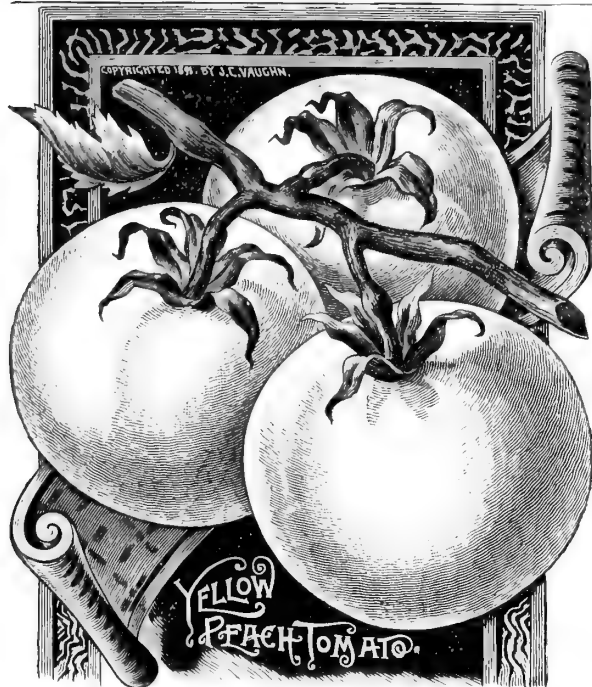
FAVORITE.—Very fine, large, early sort, in shape like Paragon and smoother, darker red than Perfection. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.00.

Optimus.—One of the best for market and canning. Fruit medium size, oval, very smooth, of a rich crimson-scarlet color, and very free from rot. Pkt., 5c.; oz., 30c.; ¼ lb., 75c.; lb., \$2.50.

VOLUNTEER.—A cross of Trophy and Canada Victor, crossed again with Perfection, combining their good qualities without retaining any of their objectionable features. It is of large size, averaging 8 ounces, round, very smooth and perfect in form, color bright red. No core, very early, and when first fruiting, ripening more abundantly than any other sort, a great advantage to market gardeners. Enormously productive, ripening well to the stem; and more free from rot and cracking than any. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Ground Cherry, or Husk Tomato.—This is much liked by many for preserves and for eating from the hand. The seed we offer is from the true yellow Ground Cherry; very prolific. Besides its use for preserves, it makes fine pies, and is very fine dried in sugar. Pkt., 5c.; oz., 30c.





VAUGHAN'S NEW YELLOW PEACH TOMATO.

This is the exact counterpart of the older sort except in color, which is a deep lemon yellow. It has the same soft leathery skin which is such a distinguishing feature of the peach variety and is equally desirable for cooking purposes. It originated with one of our customers in N. Y. state and the seed we offer was raised on our farm at Western Springs. Per pkt., 10c.; 3 for 25c.

NASHUA, N. H., Nov. '90.—The tomato plants, (Yellow Peach), sent me last summer for trial came in due season, but were not in first class condition when received. I placed them in one of my houses however, and they soon rallied and made strong plants. On bearing, I found them to produce smooth and solid fruits of a fine flavor, a good cropper and from the test given even under the unfavorable conditions above noted, I consider the results show it to be a very promising variety. C. W. HOITT.

PEACH TOMATO.

This is the most delicious and handsomest Tomato ever introduced, having an appetizing fruity flavor, not met with in any other. The fruit is of uniform size, and resembles a peach in shape, size and color, which is a deep rose and orange amber beautifully blended, and covered with a delicate bloom or furze like a peach. It is without a rival for eating from the hand, the flesh being of the most delicious flavor. The skin is very thin, and can be peeled off like that of a peach. The entire fruit is tender and free from core. Pkt. 10c. oz., 40c.

LECOMPTON, KAN., Oct. 7, '90. The Peach Tomatoes were all that was claimed for them. SARAH W. BONEBRAKE.

THE NEW STONE TOMATO. (LIVINGSTON'S).

THE NEW STONE TOMATO ripens for main crop; **is very large**, and of **bright scarlet** color; **very smooth**, with occasionally a specimen very slightly octagon shaped; **ripening evenly** to the stem without a crack; exceedingly solid and firm fleshed (as its name indicates); **is an excellent shipper**; quality the very best; fine for canning; **a good keeper**; without hard core; not subject to rot; its appearance on market remarkably attractive; a heavy variety; its vines and foliage rank and robust, heavily loaded with very uniform specimens of fruit. Per pkt., 15c.; 2 for 25c.

Prof. E. S. Goff, of Wisconsin Agricultural Experiment Station, says: "The fruit ripened at the same time as that of Livingston's Favorite. In quality it is very superior, being unusually solid. The plants were productive and the fruit was entirely smooth."

Prof. J. L. Budd, of Iowa State Agricultural College, writes: "The Tomato seed was planted in my private garden, and the fruit compared with many sorts at the Experimental Plantations. It was large enough, smooth, firm fleshed, and above all, not subject to rot. I did not see a rotten specimen, although a bad year for rot."

NEW LONG KEEPER TOMATO. (THORBURN'S).

Raised by Mr. E. S. Carman, Editor of the RURAL NEW YORKER, who describes it as follows:

"About thirteen years ago I raised all the kinds of Tomatoes popular at that time. Six of each were selected the same day, of apparently the same stage of maturity, and of a bright red color, as well as of the largest size and shapeliest form. These were kept in a darkened room until all were more or less decayed. From the last one to decay I selected seeds, which were planted the next year. Careful selections have been made every year since, always with a view to increasing their long-keeping qualities, uniformity in shape, earliness in ripening, as well as the productiveness of the vines. This is the origin of this Tomato, which has been named 'Thorburn's Long-Keeper,' and which is now offered for the first time." Pkt. (40 seeds), 25c.

NEW IGNOTUM TOMATO.

See Colored Plate on Fourth Cover Page.

This Ignotum is without question by far the finest market Tomato grown, and for slicing for the table there is none better. It is five days earlier than Volunteer and Dwarf Champion, and away ahead of all the other standard sorts. It is very large, smooth and regular, and extraordinarily solid, while the seed cavities are the smallest of any Tomato. It only averages one half as many seeds as the ordinary sorts. It is also very productive and uniform, the last pickings scarcely being inferior to the best of the season. It is of a very handsome deep red color, ripens perfectly up to the stem and remarkably free from cracking and rotting. At an exhibition of over eighty varieties in New York in 1889, this Ignotum was pronounced the best in every way and our seed has been grown from the originator's stock seed, and we would advise our customers to send in their orders early to secure the genuine stock. Pkt., 10c.; ½ oz., 20c.; oz., 40c.; ¼ lb., \$1.25; lb., \$4.00.

NEW CHEMIN MARKET.

(VAUGHAN'S APPLE SHAPED).

Another season's trial established the superior merits of this new and desirable sort, and we would urge all our market gardener customers to plant some of it, and we feel sure that it will give entire satisfaction. It is very distinct from all the standard kinds in its almost apple shaped form, of which our illustration conveys an excellent idea. It is very productive, bunches of from 10 to 15 fruits having been obtained. It is an early and very handsome variety, and its roundness and bright scarlet color attract much attention. It will often sell at 10 cents per crate higher than Acme or Paragon; and taken in all, we consider it a variety worthy a prominent place in our list. Per pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.75.

THE LORILLARD OR FORCING TOMATO.

Mr. John G. Gardner, the originator, describes it as follows: "It is equal if not superior to Perfection, when grown out of doors, but as it has a much better constitution, it will always out-crop that variety, especially in poor soil. It sets freely, with four and five fruits to a bunch, all equal, and of good size, and the color, which is vermilion-scarlet gives it great value; smooth and clean cut, and when very far advanced in maturity, takes on a bluish tint. As a variety for forcing under glass, it is the best I have ever seen." Pkt., 10c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.50.

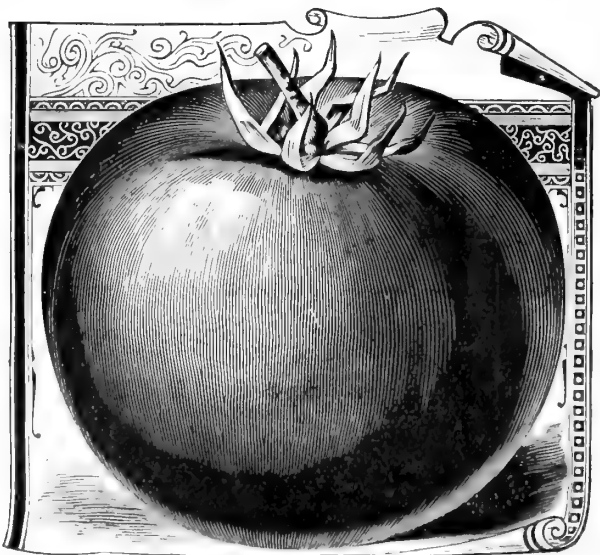
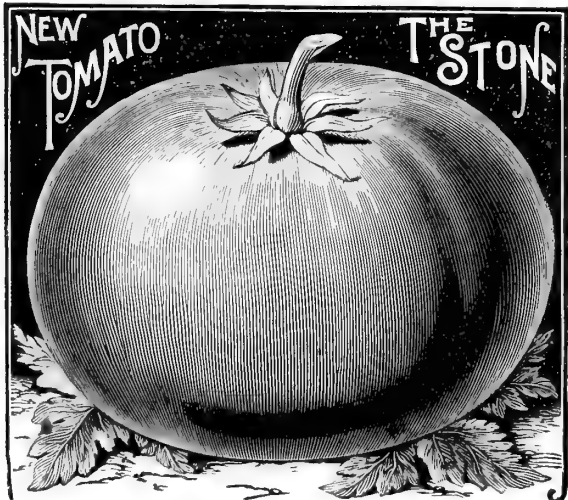
DEER PARK GLEN, ILL.—I must say I am well pleased with Chemin Market Tomato. Out of a good dozen other kinds, I doubt if I had another that could compare with it in shape, firmness, solid flesh and very tough skin, making it a good shipper.

WM. E. CHAPIN, Market Gardener.

NEW CHEMIN MARKET.

ATLANTIC PRIZE.

—One of the earliest Tomatoes grown. A new Tomato originated in New Jersey, which we found to possess some extra good qualities that render it worthy of a place in our list of tested and proven varieties. Its most important feature is **extreme earliness**, being much ahead of such standard kinds as Acme, Favorite, and Dwarf Champion, while the vines are very vigorous, stiff and strong. The fruit is borne in immense clusters, each vine producing from sixty to seventy large, perfect fruits, which are very solid, of good color and of finest quality and ripen very evenly. Every gardener will readily see the advantage of planting such a variety, as the earliest Tomatoes always command the highest prices. Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.00; lb., \$3.50.



SEED COLLECTIONS.

By putting these up complete, all ready for mailing, early in the season before our spring trade begins we can do so at the lowest possible expense. There then remains nothing to do but write the

ess of the customer, stamp and mail the package. This is a great saving of time to us and we give our customers the benefit of it in the **BARGAINS ON THIS PAGE.**

They are free by mail on receipt of price. Not subject to any discount or premiums.

Considering the extremely low rates, we cannot possibly permit any changes and the varieties are of our own selection.

• FLOWER SEED COLLECTIONS •

KADO COLLECTION NO. 1.

PKTS. OF CHOICE, FRESH FLOWER SEEDS FOR 25 CTS.

Contains ten beautiful varieties of early annuals, in handsome colored bags with full directions for their culture.

Asters, choice mixed. Poppy, double ed. Sweet Mignonette. Pansy, good ed. Double Imperial Pinks. Snapdragon, all colors mixed. Morning Glory, ed. Phlox, splendid mixture. Nasturtium, mixed. Sweet Peas, all colors mixed.

KADO COLLECTION NO. 2.

CONTAINS 20 PKTS. OF CHOICE ANNUALS, BIENNIALS AND PERENNIALS FOR 60 CTS.

Aster, Truffaut's Perfection, mixed and ed. Bouquet mixed. Balsam, double ed. Phlox Drummondii. Tall Nasturtium, mixed. Dwarf Nasturtium, ed. Pansy, all colors mixed. Mignonette, large-flowering. Morning Glory, ed. Sunflower, very double. Marigold, double French. Sweet Peas, mixed. Potrigold. Candytuft, mixed. Sweet Peas, mixed. Larkspur, perennial, blue. Canterbury Bells. Mourning Bride, ed. Foxglove, best mixed. Ornamental Gourds.



MIKADO COLLECTION NO. 3.

CONTAINS 40 PKTS. OF FLOWER SEEDS FOR \$1.00.

- 6 varieties Mixed Asters.
- 6 " Climbers.
- 6 " Ornamental Foliage Plants.
- 6 " Choice Perennials.
- 4 " Sweet Scented Flowers.
- 1 packet Dwarf Nasturtium.
- 1 " Phlox Drummondii.
- 1 " Stocks, mixed.
- 1 " Everlasting Flowers.
- 1 " Pansy, fine mixed.
- 1 " Portulacca.
- 1 " Double Japan Pink.
- 1 " Finest Double Poppy.
- 1 " Double Balsam.
- 1 " Marigold.
- 1 " Cosmos Bipinnatus.

No. 4. Flower Seeds for Bouquets.

- 10 Varieties including Dianthus, Sweet Peas, Gaillardias, Stocks etc..... 30

No. 5. Sweet Scented Flowers.

- 5 Var. including Musk, Mignonette, etc..... 20

No. 6. Climbing Plants.

- 10 Varieties including Moonflower, Nasturtium, Gourds, Cobaea, etc..... 40

No. 7. Ornamental Foliage Plants.

- 10 Varieties including Castor Bean, Perilla, Wigandia, Amaranthus, etc..... 40

• VAUGHAN'S \$1.00 SPRING BULB COLLECTION. •

Contains 20 varieties of Summer Flowering Bulbs which we will send free by mail or express for only \$1.00.

- | | | | | | |
|------------------------|-------------------|-------------------------------|-------------------------|-------------------|-----------------|
| maryllis Treatea. | 1 Apios Tuberosa. | 1 Cyclobothera. | 1 Bessera Elegans. | 3 Mixed Gladioli. | 1 Madeira Vine. |
| illa Biflora. | 1 Double Dahlia. | 1 Iris. | 2 Pearl Tuberoses. | 3 Fine Oxalis. | 1 Tigridia. |
| 1 Lillium Longiflorum. | 1 Spider Lily. | 1 Elephant's Ear. (Caladium.) | 1 Hyacinthus Candicans. | | |

This Collection will furnish flowers from early spring until late in fall and if properly cared for the bulbs can be stored over winter and planted again in spring.

• VAUGHAN'S 50 CENT SPRING BULB COLLECTION. •

Contains 12 varieties of Summer Flowering Bulbs which we will send free by mail or express for only 50 cents.

- Double Dahlia. 2 Gladioli. 1 Tiger Lily. 1 Tuberose. 1 Hyacinthus Candicans. 1 Milla Biflora. 1 Madeira Vine. 3 Oxalis. 1 Tigridia.

All the above Bulbs are fully described and most of them illustrated in the Bulb Department of this catalogue; compare the retail prices.

VAUGHAN'S GREAT

DOLLAR

GARDEN SEED

COLLECTION

33 KINDS PREPAID
FOR ONE DOLLAR.

Contains 33 full sized packets of the best Vegetable Seeds, sufficient to furnish vegetables throughout the year.

- | | | | |
|---------------------------------|----------------------------------|--------------------------------|-----------------------------------|
| ans, Flageolet Wax. | Carrot, Half Long Danvers. | Onion, Vaughan's Pickling. | Radish, Scarlet Turnip |
| ans, Low's Champion. | Cucumber, Chicago Pickle. | Onion, Globe Yellow Danvers. | Radish, Chartiers. |
| ans, Edmand's Blood Turnip. | Cucumber, Arlington White Spine. | Parsley, Champion Moss Curled. | Radish, China Winter. |
| abbage, Early Jersey Wakefield. | Lettuce, Rudolph's Favorite. | Parsnip, Improved Guernsey. | Salsify, Mammoth Sandwich Island. |
| abbage, Luxembourg. | Musk Melon, The Osage. | Pepper, The Cardinal. | Squash, Vaughan's Sum. Crookneck. |
| ery, Giant Golden Heart. | Musk Melon, Chicago Market. | Peas, American Wonder. | Squash, Sibley. |
| ery, White Plume. | Water Melon, Hungarian Honey. | Peas, Stratagem. | Turnip, Purple Top Globe. |
| n, Sweet, Burbank's Early. | Water Melon, Delaware, new. | Pumpkin, Mammoth Potiron. | Tomato, Chemin Market. |
| n, Sweet, Old Colony. | | | |

- n, Low's Champion.
- t, Edmand's Blood Turnip.
- rot, Half Long Danvers.
- n, Sweet, Old Colony.
- umber, Arlington White Spine.

16 FULL SIZED PKTS. FOR 50 CENTS.

- Lettuce, Rudolph's Favorite.
- Musk Melon, Chicago Market.
- Water Melon, Hungarian Honey.

- Onion, Globe Yellow Danvers.
- Parsley, Champion Moss Curled.
- Parsnip, Improved Guernsey.

- Cabbage, Jersey Wakefield.
- Celery, White Plume.
- Peas, American Wonder.
- Radish, Scarlet Turnip.
- Tomato, Chemin Market.

- n, Edmand's Blood Turnip.
- rot, Half Long Danvers.
- nk Melon, Chicago Market.

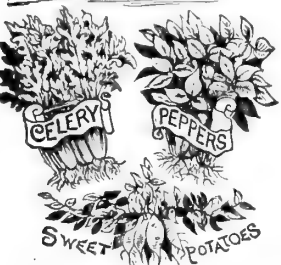
8 FULL SIZED PKTS. FOR 25 CENTS.

- Water Melon, Hungarian Honey.

- Onion, Globe Yellow Danvers.

- Cucumber, Arlington W. Spine.
- Lettuce, Rudolph's Favorite.
- Radish, Scarlet Turnip.

VAUGHAN'S TRANSPLANTED VEGETABLE PLANTS



Horse Radish Sets.—Per 100, 75c.; 500 for \$3.00.
Chives.—Good clumps, by express only, ea. 10c.; doz. \$1.
Hop Roots.—Plant very early. Per doz., 30c.

JOLIET, ILL., Aug. 29, 1890.
Celery plants received and are very good indeed. Thanks,
MARTIN MAHER.

FORT MADISON, IA., July 16, 1890. I am much pleased with the Celery plants received from you.

CHARLES L. HULL.

LATHAM, ILL. The plants I purchased from you were excellent. I raised Cauliflower which measured 15 and 16 inches across.

MRS. W. F. HENN.

JACKSON CO., MICH., June 12, '90. Cauliflower plants you sent me two weeks ago were grand and all doing well.

Mrs. G. L. WORTHINGTON, ARCOLA, ILL., July 19, '90. Celery plants arrived in good shape, count liberal, plants very satisfactory.

P. W. ARMSTRONG.

TECUMSEH, NEB., Aug. '90. The Celery plants I purchased of you some few weeks ago were very nice and came in good condition. **A. GAISER.**

PRICES ARE SUBJECT TO CHANGE OWING TO DAMAGES THROUGH CLIMATE, INSECTS, ETC.

WELL GROWN.—WE ARE THE LARGEST SHIPPERS OF THESE PLANTS.—WELL PACKED

All of these plants are grown from seeds supplied by us from the best strains which we can procure, thus insuring the success of all the plants we offer. They are grown especially for our shipping trade, and our method of packing is unequalled. Our experience and knowledge of the wants of plant buyers enable us to furnish them in the right condition, at the right time, and deliver well packed, at the Express Office on short notice. Such knowledge, which results on long acquaintance with the business, is invaluable to every buyer, who can ill afford to take any risk of delay, or of receiving plants in poor condition when his soil is ready and the season demands prompt work.

Prices do not include prepayment by mail. No order shipped under \$1.00.

SEND FOR OUR SPECIAL SUMMER PRICE LIST OF CABBAGE, CELERY, AND CAULIFLOWER PLANTS, READY JUNE 1ST.

CABBAGE, Early.—READY APRIL 1ST.	Per 50	Per 100	Per 1000
Extra Early Wakefield.....	\$ 40	\$ 75	\$ 4 50
Henderson's Early Summer.....	40	75	4 50
All Seasons.....	40	75	4 50
Vandergaw.....	40	75	4 50
Extra Early Red Erfurt.....	40	75	4 50

CABBAGE, Late.—READY JUNE 1ST.	Per 50	Per 100	Per 1000
Fottler's Brunswick.....	20	30	1 75
Premium Flat Dutch. 5000 for \$7.50.....	20	30	1 75
Luxemburg.....	25	30	2 50
Improved American Savoy.....	25	30	2 50
Red Drumhead.....	30	50	

CELERY.—Note that our prices on Celery plants vary with the season, the early plants being higher in price. READY JUNE 1ST.

White Plume.....	50	1 00
Golden Self-Blanching.....	50	1 00
Nellis' Self-Blanching.....	50	1 00
New Rose.....	50	1 00
Turnip Rooted, Apple shaped.....	50	1 00

CELERY.—READY JUNE 20TH.	Per 50	Per 100	Per 1000
Dwarf Golden Heart.....	35	60	3 25
Perfection Heartwell.....	35	60	3 25
White Plume.....	35	60	3 25
Giant Golden Heart.....	35	60	3 25
Golden Self-Blanching.....	35	60	3 25
Nellis' Self-Blanching.....	35	60	3 25
New Rose.....	35	60	3 25
Turnip Rooted.....	35	60	3 25

CELERY.—READY JULY 1ST.	Per 50	Per 100	Per 1000
Dwarf Golden Heart.....	25	50	2 50
Giant Golden Heart.....	25	50	2 50
Perfection Heartwell.....	25	50	2 50
New Giant Pascal.....	25	50	2 50
Kalamazoo.....	25	50	2 50
White Plume.....	25	50	2 50
New Rose.....	25	50	2 50
Golden Self-Blanching.....	25	50	2 50
Nellis' Self-Blanching.....	25	40	2 50

5000 lots at \$2.00; 25000 lots at \$1.75 per 1000.

CAULIFLOWER, Early.—READY APRIL 1ST.	Per 50	Per 100
Henderson's Snowball.....	75	1 25
Extra Early Erfurt.....	75	1 25

CAULIFLOWER, Second Early.—READY MAY 1ST.	Per 50	Per 100
Snowball.....	40	
Extra Early Erfurt.....	40	

CAULIFLOWER, Late.—READY JUNE 15TH.	Per 50	Per 100
Autumn Giant.....	30	
Lenormand's.....	30	
Algiers.....	30	

KOHLRABI.—READY APRIL 10TH.	Per 50	Per 100
Early White Vienna.....	40	

SWEET POTATO.—READY MAY 15TH.	Per 50	Per 100
Yellow Nansemond.....	25	
Red Jersey.....	25	

TOMATO.—READY MAY 15TH.	Per 1000 plants, any variety \$5.50	Doz.	Per 100
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Acme.....	20	
Ignotum.....	20	
Dwarf Champion.....	20	
Favorite.....	20	
Beauty.....	20	
Mikado or Turner's Hybrid.....	20	

Tomato Plants in flat boxes. These will bring the earliest Tomatoes, as the growth is not checked when transplanted. Per box of six extra strong plants, 30c.; doz., 50c. These cannot be sent by mail.

EGG PLANT.—READY MAY 15TH.	Per 50	Per 100
Very Early Dwarf.....	25	
New York Improved Purple.....	25	

PEPPER.—READY MAY 10TH.	Per 50	Per 100
Bell or Bull Nose.....	20	
Sweet Mountain, Extra.....	20	
Ruby King.....	20	
Golden Dawn.....	20	
Cayenne.....	20	



STACHYS AFFINIS.

STACHYS AFFINIS.
A new and valuable ground fruit, used for feeding swine. They are enormously productive while the tubers are very sweet, tender and nutritious. They can also be eaten and are roasted, fried or baked and taste exactly like tubers of Artichokes. Per doz., 20c.; per 100, 75c.; by mail, postpaid.

JERUSALEM ARTICHOKE.—For price and description see page 4.

SPANISH PEANUTS.

A new, very early and desirable variety with erect stems and upright foliage, much more desirable than the common spreading kind, because more easily cultivated; planted end of April they ripen before September 1st. All things considered this is the best sort for our Northern gardens for the boys to experiment with. Price, pkt., 10c.; lb., 35c.; postpaid.

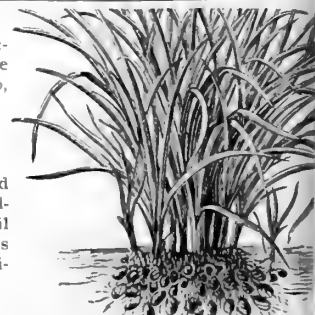
CHUFAS, OR EARTH ALMONDS.

The nuts grow underground near the surface and are easily reached by the pigs or poultry. Excellent for fattening hogs. Plant in April 10 inches apart and in 3 feet rows. If seed is dry soak before planting. One peck plants an acre. They mature in September and lie in the ground until wanted. Price, pkt., 10c.; lb., 35c.; by mail; by express, peck, \$1.50.

CHINESE YAM. (DIOSCOREA BATATAS.)

A very ornamental climber, much liked in the garden for its cinnamon-scented flowers and pretty heart-shaped leaves. The roots are very hardy, remaining in the ground over winter; the flesh is remarkably white, and boiled or baked, resembles the Irish potato in taste, but is much finer grained. Plant in moderately dry, deep rich soil; plant bulblets 8 inches apart, or cut the large roots into small pieces, and plant at same distance. They are suitable for cooking all the year round, and if left in the ground will increase in size from year to year. Larger roots, each, 10c.; doz. 85c.

NEW CHINESE MUSTARD.—The large leaves which often measure 14 inches, can be commenced to gather in about six weeks after sowing, and the plants will continue to yield until very frosty weather. The leaves are eaten boiled, like Spinach. Pkt., 5c.; oz., 10c.



CHUFAS OR EARTH ALMONDS



JERUSALEM ARTICHOKE.

SPANISH PEANUTS.



GENERAL LIST OF FLOWER SEEDS

TOGETHER WITH

ALL THE DESIRABLE NOVELTIES OF THE SEASON.

ALPHABETICALLY ARRANGED.

We believe ours to be the only establishment west of the Ohio River carrying a complete stock of **FRESH FLOWER SEEDS**, securing as we do each variety as it matures, here or abroad, and offering the same in season. We supply Parks, Florists, Private Conservatories, as well as the home garden. There is scarcely a fortnight in the year that we do not receive some new crop flower seeds, either in Palms, Primulas, Pansies or other sorts. It will pay you to send an order to us whenever you are in need and you may be sure of the latest crop that has been harvested. **Note many newer kinds which we have found worthy a place in our flower fashion plate.**



HINTS ON THE CULTURE OF FLOWERS FROM SEED.

Much annoyance and disappointment may be saved by giving close attention to the following (see also our Book List) avoid especially deep planting, over watering, under watering, or sowing too thickly.

Hardy Annuals. (H. A.)—Annuals are those plants which flower, produce their seed and die within the year in which they are sown. By **HARDY** Annuals is usually understood those which require no artificial heat at any period of their growth, but will, if sown in the open ground, come to perfect maturity before frost, while the term **HALF-HARDY** is applied to those species which flower and often ripen their seeds in the open air, but need the artificial heat of green-house, hot-bed or house in the early spring.

Sow in April or May, either in their permanent place in the open ground, or in shallow boxes two or three inches deep, placed in a warm window, or in a hot-bed, the latter method being generally preferable, as plants grow harder by being transplanted. As a rule, however, the **tap-rooted annuals**, such as **LARKSPURS** and **POPPIES** will not bear transplanting. The selection of the soil is a very important point; a light, rich, sandy loam, not too wet or too dry, makes the best seed-bed, and is often improved by the addition of a little pulverized charcoal. Smooth the surface before sowing, cover the seed with sifted earth, and keep the soil always moist.

THE ABSOLUTE ESSENTIAL OF SUCCESSFUL FLOWER GROWING is not to bury the seed too deep. The very best of seed cannot grow when choked with soil. Amateurs fail here oftener than at any other point, and their seeds and seedsmen are unjustly blamed for the failure. The depth of planting depends on the size of seed. Large seed such as **Sweet Peas** and **Morning Glory** may be covered from $\frac{1}{4}$ to $1\frac{1}{2}$ inches; such as **Zinnia**, **Mignonette** and **Candytuft**, from $\frac{1}{2}$ to $\frac{3}{4}$ inch. Fine seeds, such as **Portulacca**, **Petunia**, etc. ought not to be covered at all, or but slightly, pressing it down with a strip of board. Sun and light must be excluded from the newly sown seed—cover with paper, or a piece of moist flannel, held down by sticks or stones until the seed has germinated, and then admit gradually the air and light. When the seedlings are large enough to be handled, transplant them, observing the notes under the name of each kind in the **CATALOGUE**, which will be your guide as how wide apart to plant,

and in what position they will make the most advantageous display. Tall growing varieties should be supported by neat stakes or trellises; and last, but by no means least in importance, the weeds should be faithfully kept out and the ground frequently loosened.

Half-Hardy and Tender Annuals.

(H. H. A. and T. A.)—Sow by the middle of April in shallow boxes or well drained pots, or in a hot-bed; the seeds should be thinly and uniformly scattered over the surface of the soil, pressed gently down with a strap of wood, and then covered with a slight layer of pulverized sandy soil, after which the surface may again be slightly pressed, then carefully watered with a very fine spray, or better, a rubber plant sprinkler; then place the pots on the hot-bed or in the green house near the glass and keep them shaded. If sown after the middle of May they may be planted in the open ground like **HARDY ANNUALS**. In the case of very small seeds, such as **PETUNIA**, **LOBELIA**, etc., the covering of soil should be very thin, barely hiding the seeds, and as seeds so small are liable to be carried down into the soil unless very carefully watered, it is even advisable to moisten the surface of the soil BEFORE sowing instead of afterward. Flat seeds, such as **ZINNIA** and **COBEA**, are best put in edgewise, being sometimes liable to rot when sown flat. When the seeds are up, gradually admit the light and air to harden them, and toward the end of May, when the danger from night frosts is past they can be transplanted to their permanent positions in the open bed or border.

Hardy Biennials and Perennials.

(H. B. and H. P.)—Biennials are plants which do not flower in the first year of their growth, but flower and bear fruit in the second season and then die. Perennials are plants which continue to flower several years in succession; both live through the winter with little or no protection. These classes can be treated like **HARDY ANNUALS**, i. e., sown in the open border in spring and transplanted, or sown as soon as the seed is ripe in the fall, in which case, if the plants grow strong before the setting in of winter, they will bloom next summer. A slight

protection should be given during the winter, which should be removed early in spring. This class of plants includes many of our choicest flowering varieties which abundantly repay the care given them, although they do not bloom until the second year from seed.

Half Hardy and Tender Perennials.

(H. H. P. and T. P.)—Are plants which flower and produce their seed through a series of years, but which must be stored during the winter in cellar or green-house. Sow the seed between April and October in shallow, well drained boxes filled with very light sandy soil; keep shaded, moist and free from weeds. Transplant as soon as the seedlings are large enough to handle into boxes or pots, and by the end of May into the open ground. Some seeds of Perennials must lie in the ground for a year before they germinate, in which case any disturbance is injurious to the seed.

Seeds of Green-House Plants.

(G. P.)—These can be sown at any season of the year, but extra care should be given them, especially to such varieties as **BEGONIAS**, **CALCEOLARIAS**, etc., as the seeds are very small and delicate. Sow the seeds in well drained pans, choosing for soil a fine sandy leaf-mold, press it firmly, smooth the surface and sow the seed very evenly; cover with a light sprinkling of sand or not at all, lay a pane of glass over the pan, place it in a close frame and keep shaded. Most failures are due to mistakes in watering which should be done very carefully; the seed pans should never be allowed to dry out, as one neglect will kill the seeds just starting, while on the other hand a slight excess of water will cause the seeds to rot. After the plants are up, remove the glass and prick into other pans with the same soil; great care should be taken not to pull the plants or tear the roots in transplanting; lift with a trowel or stick and shift with good roots. Keep them shaded after transplanting until the young plants are well established in the new soil. As soon as the plants touch each other, transplant again into small pots with similar soil using the same precaution of shading at first. If troubled with green flies, fumigate occasionally with tobacco.

DISCOUNTS ON PACKETS. CUSTOMERS ARE ALLOWED TO SELECT FLOWER SEEDS IN PACKETS TO THE VALUE OF \$1.25 FOR EACH DOLLAR SENT US.

ALL FLOWER SEEDS ARE SENT FREE BY MAIL. Half Packets cannot be supplied.

ORDER BY THE NUMBER GIVEN AT THE LEFT OF EACH KIND.

ABOBRA.

A rapid growing climber of the Gourd family, with handsome oval scarlet fruit, forming a striking contrast to the dark green foliage. 10 feet. H. H. P.
40 A. *Viridiflora*..... 10

ABRONIA.

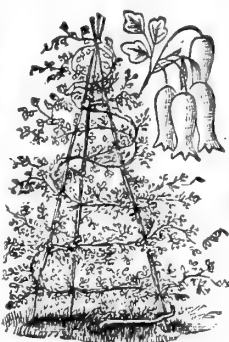
A trailing plant, bearing clusters of Verbena like sweet-scented flowers; very effective in beds, rock-work and hanging baskets. Height, 6 inches. H. H. A.
41 A. *Umbellata*.—Rosy lilac, with white eyes..... 5
42 — *Grandiflora*.—Pure rose..... 5

ABUTILON.

Also called Flowering Maple or Chinese Bell Flower. Very free-blooming green-house shrubs, with handsomely varied and striped bell-shaped flowers; very ornamental in flower beds. Will bloom the first season if sown early. 2 to 6 feet.
43 A. *Snowball*.—Pure white..... 15
44 — *Fireball*.—Brilliant scarlet flowers and of compact habit..... 15
45 — *Many Sorts*.—Extra fine mixed..... 10
46 *ACACIA Lophanta Speciosa Compacta*.—Elegant green-house shrubs, with beautiful foliage and flowers of various colors. 15 inches..... 5
47 — *MANY SORTS*, fine mixed..... 5



ABRONIA.



ADLUMIA.



AGERATUM.



AMARANTHUS.



SWEET ALYSSUM.

- 48 **ACANTHUS Latifolius.**—Very ornamental, hardy perennial, of stately growth, best suited for lawn decoration..... 5
 49 **ACONTIUM.** MONK'S HOOD OR WOLFEBANE.—A showy, free-blooming plant, which thrives well under trees, shrubs and in other shaded situations. Blue and white. Height, 2 feet. H. P. 5

ACROCLINEUM.

One of the most beautiful everlastings, with handsome daisy-like flowers, largely used for winter bouquets. Gather before fully opened. 1 foot. H. H. A.

- 50 **A. Album.**—Pure white..... 5
 51 **—Roseum.**—Bright rose..... 5
 52 **—Fl. Pleno.**—New, perfectly double flowers of a bright rose..... 10

- 53 **ADLUMIA Cirrhosa.** MOUNTAIN FRINGE OR ALLEGHENY VINE.—A hardy, very attractive climbing plant; pale green foliage and pink and white flowers. 15 ft. H. A. 10

- 56 **ADONIS ÆSTIVALIS, Flos Adonis.**—A very showy annual, with pretty flowers and dark green foliage, good for beds and borders. Flowers bright crimson, peering from finely-cut dark foliage. Height, 15 inches. H. A. 5

- 57 **AGATHÆA Cœlestis.** BLUE MARGUERITE.—The flowers are the very counterpart of the Paris Daisy, except color which is a sky blue with a yellow disc; it is of easy growth and produces flowers all the year. H. H. P. 10

AGERATUM.

Very effective plants for bedding, remaining in bloom throughout the whole summer, valuable cut-flower. Imperial Dwarf Blue and white are especially suited for ribbon bedding. H. H. A.

- 58 **Ag. Mexicanum.**—Blue, useful for bouquets. 5
 59 **—Mexicanum Album.**—Creamy white. 5
 60 **—Imperial Dwarf Blue.**—Excellent plant for ribbon borders; 6 in. 5
 61 **—Imperial Dwarf White.**—Like above except color..... 5
 62 **—"Little Dorrit."**—Splendid blue, excellent for bedding..... 10

- 63 **AGROSTEMMA Cœli Rosa.**—Free-blooming and attractive plants, wooly foliage. Rose of Heaven; pretty rose flower. 1 ft. H. P. 5

SWEET ALYSSUM.

A general favorite, with delicate white flowers of exquisite fragrance, very free blooming, suitable for beds, borders and rock work; very useful cut-flowers for the winter. H. A.

- 65 **A. Maritimum.**—White, very sweet..... 5
 66 **—Benthami Compactum.**—Of dwarf, robust growth; 6 inches..... 5
 67 **—Golden Saxatile.**—Flowers brilliant golden yellow, completely hiding the foliage. Plants about one foot high, desirable for rock work, and quite showy in masses. H. P. 5

- 68 **AMMOBIUM Alatum Grandiflorum.**—A favorite everlasting, with white flowers; cut before fully open. 2½ feet. H. A. 5

- ALONSOA.** MASK FLOWER.—Showy plants, extraordinarily well adapted to bedding and in-door culture, does well in any rich garden soil. Height, 18 inches. H. H. A.

- 69 **A. Grandiflora.**—Bright scarlet..... 5
 70 **—Warscewiczii.**—Brilliant crimson..... 5

- 71 **AMPELOPSIS Veitchii.** JAPANESE IVY.—A species of Woodbine from Japan, with very pretty olive green foliage, which turns to bright scarlet, crimson and orange in the fall. It does not require fastening, as it clings to the smoothest walls. It is perfectly hardy and is fast becoming a general favorite. H. P. 10

For prices on plants see "Hardy Climbers."



ANTIRRHINUM.



NEW WHITE SPURRED COLUMBINE.

(AQUILEGIA CHRYSANTHA GRANDIFLORA ALBA.)

96 The chrysantha varieties of Aquilegia are well known and esteemed as belonging to the finest and most graceful hardy perennials. The new, large flowering, pure white varieties with its fine, long spurs, as illustrated, is perfectly hardy and absolutely true to name. For in 1000 seedlings scarcely 20 other shades have been found. It is a beautiful plant for pots, and if planted in groups they present a perfect sea of white flowers. Pkt., 15c.

AMARANTHUS.

Ornamental foliage plants of extremely handsome appearance, giving the borders a sub-tropical effect. Should not be grown in too rich a soil, else the leaves will not develop their brilliancy of color. H. H. A.

- 74 **A. Atropureus.**—Deep blood-red foliage, with drooping flower spikes. 2 feet..... 5
 75 **—Abyssinicus.**—Splendid as solitary plants on lawns..... 5
 76 **—Caudatus.**—(Love Lies Bleeding.) Exceedingly pretty; 2 feet..... 5
 77 **—Henderi.**—Leaves intense rosy carmine, varying with orange buff, golden yellow and olive green, very choice; 3 feet..... 10
 78 **—Nobilis Pyramidalis.**—Blood-red, compact, 3 feet..... 5
 79 **—Tricolor.**—(Joseph's Coat.) Scarlet, green and yellow; 2½ feet..... 5
 80 **—Salicifolius.**—(Fountain Plant.) Of pyramidal, drooping habit, branching close to the ground; leaves green with orange, bronze and crimson shading. 4 feet..... 5

- 81 **—Fine Mixture of many varieties.**..... 5

- 82 **AMARANTHUS Splendens.**—The finest of its class with leaves of the most brilliant colors. The plant grows upright, the inner foliage is of a dark blackish bronze tipped with green, while the color of the outer foliage is of a bright scarlet and gold; very showy and distinct..... 10

- 83 **AMARANTHUS "Stanley."**—One of the finest of this showy class of annuals which produces numerous stalks covered with long thick panicles of crimson flowers. It commences to bloom shortly after sowing and continues until late in the fall. Height, 15 inches..... 5

- 83a **AMARYLLIS Hybrida.**—Bulbous plants, producing from 2 to 4 of the richest colored crimson, scarlet and white striped, lily-like flowers. 20

- 84 **ANAGALLIS Grandiflora.** PIMPERNEL.—One of the brightest of wild flowers, very free flowering and admirably adapted to edging, baskets, etc. Succeed best in light, rich soil in sunny places. 6 inches. H. H. A. 5

- 85 **ANEMONE.** WINDFLOWER.—These can easily be raised from seed and bloom in the fall. The tubers can then be taken up and kept like Dahlias and planted again the following spring. Many colors mixed..... 10

- 86 **ANTIGONON LEPTOPUS.** MEXICAN MOUNTAIN ROSE.—A beautiful climbing plant with clusters of scarlet flowers. H. H. P. 15

ANTIRRHINUM.—SNAPDRAGON.

An old garden favorite, with dark, glossy leaves, and odd shaped flowers with pretty spotted throats; one of our most showy and useful border plants.

- A. Majus, Tall Sorts.**—6 separate colors for 25c.; each..... 5
 87 **—Tall Sorts in splendid mixture.**..... 5
 88 **—Tom Thumb.**—Entirely distinct from above, grow about 8 in. high, and are exceedingly attractive. 6 distinct colors, 25c.; each..... 5
 89 **—Tom Thumb.**—Dwarf sorts, mixed..... 5

AQUELEGIA.—COLUMBINE.

A very showy class with curiously shaped blossoms, in great variety of colors; rank among the finest early spring flowering plants. H. P.

- 90 **A. Double Varieties.**—In finest mixture..... 5
 91 **—Single Varieties.**—All colors mixed..... 5
 92 **—Chrysantha.**—Golden yellow flowers, pretty for bouquets..... 10
 93 **—Olympica Fl. Pl.**—NEW DOUBLE COLUMBINE.—A splendid sort; dark blue, very double flowers with a clear white center..... 10
 94 **—Atrovioacea Plena.**—Flowers dark blue, very double, variegated, splendid sort..... 10
 97 **ARISTOLOCHIA.** DUTCHMAN'S PIPE.—A rapid growing hardy climber, with curious horn-shaped flowers and large heart-shaped leaves. H. H. P. For plants see list of "Hardy Climbers." 10

Balsams or Lady Slippers are old favorites with every one owing to their handsome double flowers, brilliant colors and stately growth. **To produce very double flowers, they must be transplanted into a rich soil in a sunny position and frequently watered.** Cutting out some of the side branches is also advisable, especially with the strong and bushy growing varieties.

VAUGHAN'S INVINCIBLE BALSAMS.

WE have no hesitancy in pronouncing this strain the finest in cultivation. The flowers are very large, measuring from two to three inches in diameter, of perfect form, resembling the flower of the Camellia, and are as double. In fact the petals are so densely produced that the yield of seed is extremely small, one single plant often not producing more than five seeds. The colors of the flowers are varied and brilliant, comprising pure white, crimson, white shaded lilac, rose spotted, scarlet, blue and purple and many other tints and variations.

227 VAUGHAN'S INVINCIBLE BALSAM MIXTURE. Embracing all the above shades and colors, per pkt., 20c.; 3 for 50c.; 7 for \$1.00.

DOUBLE CAMELLIA FLOWERED BALSAMS.

These are like Asters, Pansies, Phlox and Stocks one of our specialties which we sell to our extensive florists trade all over the country, and we have taken special pains in having the most double and largest flowers in the most distinct and striking colors and know they will give satisfaction.

228 Snow White, very double, perfect in form. **229 Scarlet Spotted**
230 Crimson. **232 Crimson Spotted.** **234 Scarlet.**
231 Pink. **233 Light Lemon, new.** **235 Flesh Color.**
236 Solferino, white, beautifully striped with purple scarlet.
237 Victoria, satin white spotted with scarlet.

Price, per pkt. of any of above, 10c.; any 3 for 25c.

238 Collection of 6 distinct colors..... 40 | **239 Collection of 10 distinct colors. 75**
DOUBLE CAMELLIA BALSAMS, best mixed, from above kinds and others. Per pkt., 10c.

241 DWARF BALSAMS. These are very useful for borders but the flowers are only semi-double. Per pkt., 10c.

242 ROSE-FLOWERED BALSAMS. Although not as choice as our Camellia-flowered Balsams this is a very good strain and will give a fair percentage of double flowers in a large variety of colors. Per pkt., 5c.

243 Carnation Striped Balsams. These are very showy and attractive but are not quite so double as the Camellia-flowered. Many colors mixed, per pkt., 5c.

244 Balsams Mixed. Comprising the above 4 kinds, per pkt., 5c.

BALONE VINE.

Love in a Puff

245 A pretty, rapid growing climber, very ornamental; thrives best in a light soil in a warm situation. 5 ft. Pkt., 5c.

246 BARTONIA Aurea. A pretty free-flowering plant with downy, thistle-like foliage and golden yellow flowers. 2½ feet. H. H. A. Per pkt., 5c.

BACHELOR'S BUTTON. (See Centaurea Cyanus.)

Don't fail to order some of our Double Margaret Carnation Seed, that bloom the first year.



DOUBLE CAMELLIA-FLOWERED BALSAM.

VAUGHAN'S

GIANT FLOWERED TUBEROUS ROOTED BEGONIAS.

(SEE COLORED PLATE.)

THESE continue year by year to increase in popular favor and are now considered the foremost among flowering plants for pots or for bedding. Enormous quantities are used in all the public parks where they invariably elicit the most general admiration. For brilliancy of variety of colors there is nothing to equal them. Considerable time and expense has been bestowed on the hybridization and improvement of these plants, resulting in wonderful changes from the old types and we now have wens measuring from 5 to 7 inches across most round, of leathery substance, produced continually throughout the whole summer and autumn, and last but not least borne upright on stout stiff stalks showing the full beauty of the flower. From one single package of seed bulbs by the hundred can be raised in one season, reducing this way the cost of the single tuber to most nothing enabling you to raise these Begonias in place of Geraniums to which they are far superior. These seed could be sown in February or March. Full directions for sowing and culture accompany each package.

GIANT FLOWERED SINGLE BEGONIAS, 250 White; 251 Yellow; 252 Scarlet; 253 Pink; each, per pkt., 30c.; all 4 for \$1.00.

VAUGHAN'S PRIZE, Single Begonias, mixed, per pkt., 25c.

DOUBLE FLOWERING BEGONIAS, per pkt., 50c.

BEGONIA, Rex Hybrids. Ornamental leaved variety saved from choicest sorts, pkt. 25c.

FOR BEGONIA BULBS, SEE LIST OF PLANTS AND BULBS.

NEW BALSAM PEAR.—(MOMORDICA INVOLUCRATA.)

THIS is by far the prettiest, most graceful and handsomest climber introduced of late. It is a native of South Africa, where it grows in the mountains of Natal, flourishing and blooming the whole year. The plant is a perennial, and is of very rapid and spreading growth. The graceful branchlets climb without training, and are thickly covered with fresh, pretty foliage. The fruits are at first sulphur yellow, and turn gradually to carmine red; they are produced continually, and as they ripen they burst open and display their blood-red seeds against the bright yellow seed cavity. Per pkt., 10c.

BALSAM APPLE (MOMORDICA.) Very curious trailing plants, with ornamental foliage and golden-yellow fruit, which opens when ripe, showing the seed and its carmine interior, 10 feet.

53 M. Balsamina, Balsam Apple. Per pkt., 5c. | **259 M. Charantia, Balsam Pear.** Per pkt., 5c.

60 BIGNONIA Radicans, TRUMPET VINE. This showiest of all climbing vines can also be raised from seed. (For Plants see "Hardy Climbers"), 30 feet, H. P. Per pkt., 10c.

61 BOCCONIA Japonica. Most effective plant for lawn decoration, 5 to 8 feet, H. P. Pkt. 10c.

62 BRACHYCOME Iberidifolia. A dwarf, free-blooming plant, excellent for baskets and edgings, flowers a lovely blue. H. H. A. Per pkt., 5c.

263 ——— Alba. Flowers star-shaped, white, very pretty. Per pkt., 5c.



VAUGHAN'S INVINCIBLE BALSAM



DOUBLE TUBEROUS BEGONIA



CANARY-BIRD FLOWER.

BELLIS OR DOUBLE DAISIES.

Very pretty flowers, desirable for borders. Thrive well in shady places. 4 inches. H. H. P.

- 270 **B. Double White**.....10 273 **B. Red Crown**.—Pink flowers with crimson center.....10
 271 — **Double Red**.....10 274 — **Good Mixed**.....5
 272 — **Finest Double**, mixed.....10

275 **Longfellow**.—This variety produces dark pink flowers, usually large and double, very long and stiff flower spikes; valuable for bouquets.....10

NEW SNOWBALL DAISY.

276 A sport of that charming variety Longfellow which possesses the good qualities of its parent: **long stem, free bloom and large double flowers**, about 80 per cent. of which are extremely large and snowy white, justifying its name. This flower needs no recommendation as a bedding and border plant.....15

277 **CACALIA** (TASSEL FLOWERS).—Showy and profuse flowering, with tassel-shaped scarlet and orange flowers. 1½ feet. H. H. A.....5

278 **CACTUS**.—These come readily from seed which should be sown in flower-pot saucers filled with coarse sand, and covered with a piece of glass. A better way is to set the saucer in which the seeds are planted into one of larger size, containing water, thus keeping the sand in proper condition of moisture. Put the young seedlings into very small pots at first. Many varieties, extra choice mixed.....10

CALCEOLARIA.

These belong to the showiest of the greenhouse plants, but the Rugosa variety makes a very showy bedding plant. Height 10 inches. G. P.

- 279 **C. Hybrida Grandiflora**.—A splendid strain from one of the choicest European collections. (Sow in July.).....35
 280 — **Rugosa** (shrubby).—Yellow mixed. (Sow in February.).....50
 281 **CALAMELIS Scaber**.—A quick growing climber, with an abundance of orange tube-like flowers, borne in clusters. H. H. P.....10

NEW GOLDEN COREOPSIS.

(COREOPSIS LANCEOLATA.)

293 A hardy herbaceous perennial, easy to grow, very free to bloom, and one of the finest of yellow flowers. A most beautiful plant, which will last in its golden glory throughout the whole summer and fall. A plant every one should have. Pkt., 10c.

CAMPANULA (CANTERBURY BELL.)

A highly attractive class of plants, combining richness of color with stately growth; valuable for beds and borders. The perennial varieties, if sown early, will bloom the first season.

- 295 **C. Media, Double White**.....5
 296 — **Double Blue**.....5
 297 — **Single White**.....5
 298 — **Single Blue**.....5
 299 — **Calycanthema**.—("Pink Cup and Saucer.") This new type distinguishes itself from the old by having the calyx of the same color as the corolla, and is very handsome.....10
 300 — **Double Annual Vars.**—In finest mixture.....5
 301 — **Perennial Vars.**—Many varieties mixed.....5
 302 — **Speculum, White.**—(Venus Looking Glass.) 5
 303 — **Blue**.—6 inches.....5
 304 — **Flore Pleno**.—Double blue, very pretty.....5
 305 — **Pyramidalis**.—Blue perennial, 3 feet.....5

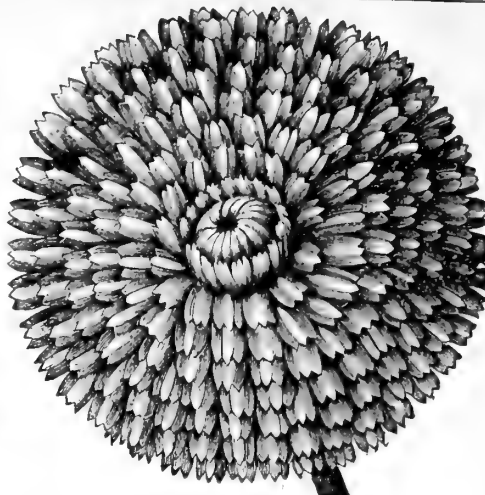
CAMPANULA, Cup and Saucer.

306 A beautiful variety; a most desirable and attractive addition to this class of old garden favorites. The bell or trumpet is nearly four inches in diameter, presenting the form of a saucer, hence its name. The plant is of strong growth, quite as hardy and floriferous as the old blue variety, and is very elegant and handsome when in flower, the blossoms literally hiding the plant; it is highly ornamental in the flower border or potted for conservatory decoration. Pkt., 5c.; 3 for 15c.

CANARY-BIRD FLOWER.

(TROPÆOLUM PEREGRINUM OR CANARIENSE.)

307 One of the most charming climbers, bearing an abundance of bright yellow fringed flowers. 10 ft. 10



CALENDULA.



DRACÆNA-LEAVED BEET.

27 **CALANDRINA Grandiflora**.—Beautiful dwarf plants, suitable for rock-work. Flower of a rich rosy pink. 1 ft. H. A.....

CALENDULA or Pot Marigold.

Very handsome free-flowering plants, producing a fine effect in beds and borders; succeed in a garden soil. Height 1 foot. H. A.

- 282 **C. Pongei fl. pl.**—Large double white flowers.....
 283 — **Officinalis fl. pl.**—Fine orange.....
 284 — **Meteor**.—This magnificent variety has large and beautifully imbricated double flowers, with stripes of deep orange on a pale yellow ground.....
 285 — **Prince of Orange**.—Surpasses even "Meteor" in beauty, the flower being striped with a more intense orange, giving the whole flower the brilliant hue. It is a very profuse bloomer and very useful for bouquets.....
 286 **Suffruticosa**.—Grows in tufts 20 to 24 inches in height; the flowers are produced on long thin flower-stalks, and are of a bright yellow color. They flower abundantly and are easy of cultivation.....

NEW DOUBLE LARGE FLOWERED CALENDULA.

287 Flowers of considerable size, much larger than any we have seen yet, and they are also remarkably double. The outer florets are slightly imbricated, while the center of the centre are incurved like the petals of a Pæony. The color is a rich orange, very striking.....

CALLIOPSIS OR COREOPSIS.

Very showy border plant, producing flowers in every shade of yellow, orange, crimson and brown; will bloom until frost. H. A.

- 288 **Golden Wave**.—Probably the most effective of all annuals, for a mass of bright golden color. Plant very bushy and compact, about two feet in height, and covered from July to October with hundreds of beautiful golden blossoms, two inches across, with small dark centers. It will grow in any situation and always be greatly admired.....
 289 — **Dwarf Marbled**.—A most beautiful plant with large marbled flowers, one of the best. 15 inches.....
 290 — **Dwarf Blood-red**.—Dwarf bushy plants with deep blood-red flowers.....
 291 — **Dwarf Sorts**, mixed.....5 | 292 — **All Sorts and Colors**, mixed.....

308 **CALLIRHOE Pedata**.—Very pretty trailing plants for bedding. Flowers violet purple, white eye.

CANDYTUFT (IBERIS.)

Very useful for beds, ribbons, etc., also for pots and for cut flowers for bouquets. A bed of Candytuft in color makes a splendid display. H. A.

NEW PYRAMIDAL ROCKET.

309 A new pure white gigantic annual Candytuft, which will probably prove to be the finest form in cultivation; is possessed of a strong free growth, is about 1½ feet high and produces **monstrous rocket-like spikes** of flowers, which are closely placed upon the spikes, and of **large size**, fine substance, and **purest white** and are very **sweetly fragrant**; one of the most effective annuals in cultivation. Pkt., 10c.; 3 for 25c.

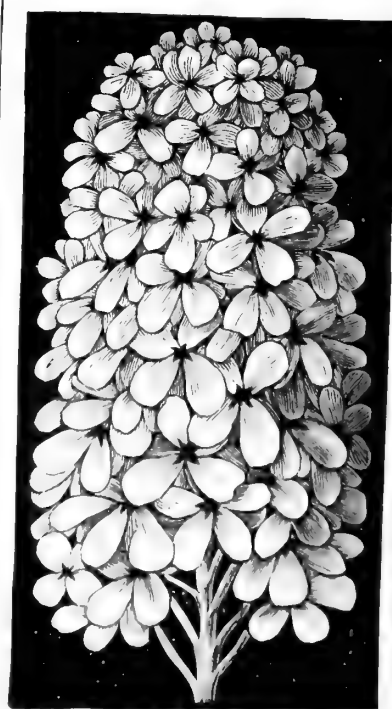
SNOWFLAKE.

310 Extremely floriferous new sort from Castile. The plants grow about 7 inches high, forming a very neat round bush covered with the finest flowers of the purest white. They are most valuable for pot culture, carpet bed and groups. **A continuous bloom** throughout the whole year may be had by repeated sowings. A most valuable addition to this family. Per pkt., 5c.

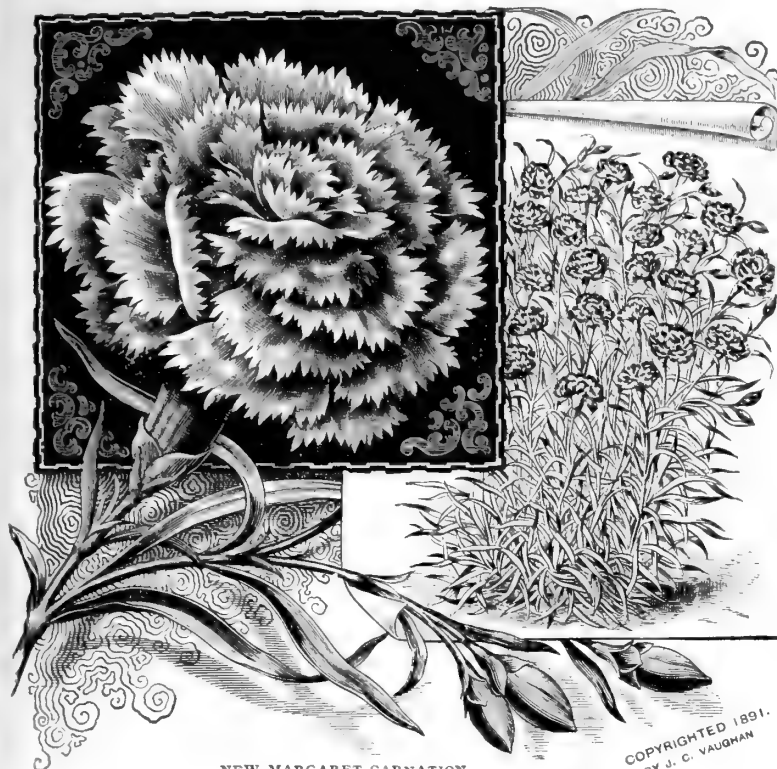
NEW EMPRESS.

311 One of the finest varieties of recent introduction. It is intermediate in height between the old Rocket and the newer Tom Thumb sort. The plant is of a **very branching habit**, and assumes, when fully grown and covered with its large trusses of **pure white flowers**, a very handsome candelabrum-like aspect. Per pkt., 10c.

- 312 **I. White Rocket**.—(Coronaria.) 1 ft. oz. 25c.....
 313 — **Dwarf**.—(Tom Thumb) for edgings and ribbon beds. 6 inches.....
 314 — **Umbellata Lilacina**.—Purple lilac. 1 ft.....
 315 — **Crimson**.—Beautiful color. 1 ft.....
 316 — **New Carmine**.—Dwarf plants, with vivid carmine flowers.....
 317 — **Mixed**.—(Annual varieties.).....
 318 — **Sempervirens**.—Perennial.....10



CANDYTUFT EMPRESS.



NEW MARGARET CARNATION.
NEW DWARF

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BY J. C. VAUGHAN

• CARNATION. •

This lovely flower, known to everybody, succeeds in any light soil, and will give better flowers than slips taken from old plants. The seed we offer is saved from the finest collection in Europe. H. H. P.

- 325 C.—Fine double mixed of sweet scented sorts..... 10
- 326 — Extra Choice Mixed.—Saved from a rich collection of named flowers, which will produce splendid varieties..... 25
- 327 — Early Grenadin.—Of dwarf, compact growth, the double flowers are salmon red. Blooms three weeks earlier than others. 10
- 328 — Early Grenadin White.—Like the above except in color. 15
- 329 — Vienna Dwarf.—The best garden sort, which produces a large percentage of double, very sweet-scented flowers, in the largest variety of colors. With a light protection of straw they will stand out winter 10
- 330 — La Favori.—Double, rosy carmine, packet of 10 seeds..... 15
- 331 — Hermine.—Double, pure white, packet of 10 seeds..... 15
- 332 — Mlle. Carle.—Double, snow white, packet of 10 seeds..... 15
- 333 — Jean Sisley.—Double, salmon yellow, packet of 10 seeds..... 15
- 334 — New Double Yellow, Countess of Paris.—A most beautiful shade of yellow, much liked in Paris. 10 seeds..... 25

NEW MARGARET CARNATION.

See illustration on front cover page.

335 Since the introduction of the Giant-flowered Begonias no novelty has created such a universal sensation in the flower line as the **Margaret Carnations**. They have thoroughly revolutionized the Carnation culture like the Bush Lima Bean has in its class. Just think of having **flowering Carnations from seed in 4 months after sowing**. In 1888 one of our growers sent us a sample package, praising its superiority in such high terms that we decided to give it a thorough test, the result of which, with personal inspection of it in the German seed farms induced us to offer it last year, describing it as follows:

The plants are of dwarf, compact and neat habit, branching closely above the ground, and do not require any support. They flower most abundantly, and throughout the whole year. 80 per cent. of the flowers are very double, never burst, and embrace a great variety of colors. But of the greatest importance is the fact that **the seedlings bloom when only 3 months old**, and carnation flowers can be had all summer and winter if some consecutive sowings are made.

Last summer we repeated the test in our trials at Western Springs on a more extensive scale and are now convinced that our description did not do justice to this beautiful and valuable plant. **Amongst 800 plants we did not find more than 3 per cent. of single or semi-double flowers**. Having so thoroughly tested the seed of this, we know and have secured the best strain of this variety in existence, and our customers who know so well the imperfections of a new strain of seed of this class when first introduced, will do well to **secure the genuine from us**. See also plants of it offered as we believe in this country only in our **Wolfsden Novelty Plant Collection for 1891**. We sell the plants only in this collection as the stock is limited. Price of seed, per pkt., 15c.; 3 for 40c.;

LARGEFLOWERING FRENCH CANNAS

THIS new and entirely distinct class of Cannas is of dwarf, compact habit, producing **flowers similar to those of the Gladiolus**, but excelling them in **brilliance, marking and variety** of colors, embracing all shades from light lemon to the deepest orange and red to cherry and the deepest magenta, many being beautifully marked, streaked, mottled and flamed. They are the result of much labor and expense, Monsieur Crozy, a celebrated French horticulturist, having devoted a lifetime to the improvement of this beautiful and useful flower. They are equally valuable for groups, solitary plants and for house decorations. It is impossible to say enough in praise of the exceeding beauty of these Cannas. If the seed, which should be soaked for twelve hours in warm water, is sown early in a hot-bed and transplanted into not too rich soil, **the plants will bloom from July or August** until cut down by severe frost. The roots can be wintered in a dry cellar like Dahlias, or may be potted and kept in bloom the greater part of the winter.

- 340 — Antoine Crozy.—Foliage rich deep green, flowers a bright cherry carmine. 15
- 341 — Enfant du Rhone.—Flowers large brilliant scarlet, foliage bright green, reddish tint. 15
- 342 — Jules Chretien.—Flowers large with broad petals of a brilliant cherry crimson. 15
- 343 — F. Benary.—A dazzling magenta-red, very showy..... 15
- 344 — Louise Chretien.—Bright canary-yellow beautifully blotched and streaked with carmine 15
- 345 — Saint Hilaire.—Flowers large, a rich glowing scarlet overlaid with orange; very distinct 15
- 346 — Mixed.—All the above sorts and many others..... 10

Special Offer.—One packet each of the above 6 colors for 75c.

CANNAS, OLD TYPES.

- 348 — Mixture of dark leaved sorts. 5 | 349 Mixture of all kinds and colors 5

CALIFORNIA LAYIA.—LAYIA ELEGANS.

351 A beautiful hardy annual, forming upright bushy plants, 1 foot high, and producing in abundance large single yellow flowers, bordered with white; of easy culture and very showy. Packet, 15c.

• CAPSICUM, LITTLE GEM. •

352 A very fine plant for winter decoration, both for the conservatory and the table. The leaves and berries are small, the latter brilliant scarlet and produced in great abundance. Pkt., 5c.

• CINERARIA. •

A favorite greenhouse plant, with large handsome flowers, in richly diversified colors; one of the best early spring flowering plants. (G. P.)

354 C. Hybrida Grandiflora.—Choicest mixed. 25 | 355 — Fl. Pl., Double.—Extra fine mixed 50

BEDDING CINERARIAS.

These Cinerarias are half-hardy perennials, with silvery foliage, used chiefly for beds and borders.

- 356 C. Candidissima.—Silvery foliage, pretty..... 10
- 357 — Maritima.—White, deeply cut..... 5

• CLEMATIS. •

Well known, rapid growing, free-blooming climber.

- 360 C. Jackmani.—A mixture of choice hybrids, the finest of all..... 15
- 361 — Double Hybrids Mixed.—Saved from a choice collection... 25

Roots of Clematis.—See "Hardy Climbers."

REMEMBER ALL WHO SEND US AN ORDER THIS YEAR ARE BOOKED ON OUR LIST AND RECEIVE OUR NEXT CATALOGUE FREE.



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BY J. C. VAUGHAN

NEW DWARF LARGE-FLOWERING CANNAS.





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BY J. C. VAUGHAN

TYPES OF VAUGHAN'S AMERICAN CHRYSANTHEMUMS.

VAUGHAN'S AMERICAN CHRYSANTHEMUM.

SAVED FROM THE VERY FINEST VARIETIES ONLY.

367 The Chrysanthemum Seed we offer is of a finer quality and will bring better results than any ever offered for sale in this country. It is the same stock as that from which were grown the celebrated prize winning plants which secured the BLANC and WHILLDIN prizes at the Philadelphia Chrysanthemum show this year. From one lot of 24 plants, raised from this same stock, **six seedlings sold for \$200.00.** The expensive private collection from which this seed was saved included all, and only the very finest varieties in cultivation. The opportunity here given to our customers **to secure some grand new specimens** from this seed, is as good as that of any professional grower's. Directions for sowing the seed printed on every packet. **Chrysanthemum plants raised from seed bloom the first year.** Pkt. of 25 seeds 35c.; 2 for 60c.; 4 for \$1.00.

See Cash Prize offered below.

CHRYSANTHEMUM.

Owing to the great usefulness of the annual Chrysanthemums the demand for the same has, especially among the florists, more than tripled in the last few years; in fact, there is no annual which furnishes so many cut flowers as these. They bloom until Fall, and make lovely plants for beds, borders, etc.

DOUBLE ANNUAL VARIETIES.

- 368 C. Double White, 2 feet..... 5
 369 — Double Golden Yellow, 2 feet..... 5
 370 — Double Sulphur Yellow, a new color, very delicate lemon, flowers very double, valuable for bouquets..... 5
 371 — **Inodorum Plenissimum.**—One of the best annuals for cut-flowers, furnishing an abundance of snow-white double flowers in great abundance throughout the whole summer and fall; 2½ feet..... 10

SINGLE ANNUAL VARIETIES.

- 372 — **Burridgeanum.**—Crimson, white centre, 1 ft 5
 373 — **Eclipse.**—An excellent showy variety. Its large single flowers are 2 to 2½ inches in diameter, and exhibit a striking contrast in markings; they are pure golden-yellow with a bright purplish-scarlet ring on the ray florets, the disk being dark brown..... 5
 374 — **Segetum Grandiflorum.**—Flowers sulphur yellow, very large, often measuring 2 to 2½ in. in diameter. A valuable cut-flower. 1 ft. 5

- 375 — **Lord Beaconsfield.**—Crimson maroon, edged and striped with a golden rim, surrounding a rich brown eye..... 5
 376 — **The Sultan.**—Rich crimson maroon..... 5
 377 — **Golden Feather.**—Foliage of a striking golden-yellow, flowers white, with a crimson ring near the centre..... 5

SINGLE PERENNIAL VARIETIES.

- 380 — **Frutescens Grandiflorum.**—(PARIS DAISY or MARGUERITE.) Produces an abundance of large white star-shaped flowers, succeeds in any garden soil. 2½ ft..... 10
 381 — **Frutescens, Etoile d'or.**—Golden yellow. 10

CHRYSANTHEMUM MAXIMUM, OR LARGE OX-EYE DAISY.

382 A free-blooming hardy perennial, not more than 2 feet high, forming a large bush, which is literally smothered with pure white flowers of great substance. A grand border plant and the flowers are well adapted for cutting, lasting over a week when cut. This is really a first-class plant, and well deserving a place in every garden. Per pkt., 10c.; 3 for 25c.

NEW DOUBLE CORNFLOWER.—CENTAUREA CYANUS FL. PL.

383 Cornflowers have ever been favorites with all flower lovers, and we are satisfied that this new introduction of a Double Cornflower will meet with a hearty welcome. In addition to the doubleness of the flower, this strain contains a number of new shades. In our mixture will be found white striped with red and blue, dark red with light blue tips and others. About 70 per cent. of the seed will reproduce double flowers. Our illustration shows the difference between the old style or single flower and the new double Cornflower. Pkt., 10c., 3 for 20c.

CENTAUREA OR DUSTY MILLER.

Valuable bedding plants, with silvery foliage, deeply cut, forming a striking contrast when grouped with other plants. H. H. P. Height 1 ft.

- 390 C. **Candidissima.**—Leaves silvery white, finely cut, the best..... 15
 391 — **Gymnocarpa.**—Very graceful, silvery grey foliage..... 10
 392 — **Clementi.**—Vigorous grower, with deeply cut silver foliage 10

CENTAUREA CYANUS OR BACHELOR'S BUTTON.

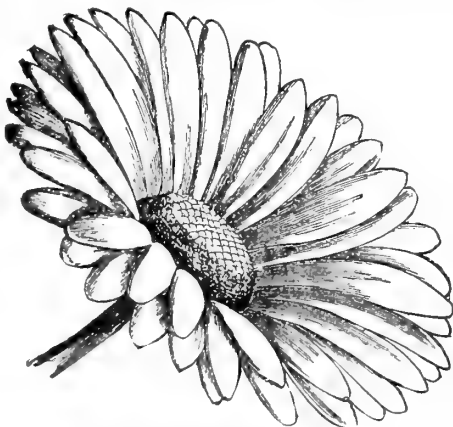
Very free-blooming, hardy annuals, also called Blue Bottle, Ragged Sailor, etc. This was the favorite of the late German Emperor. 2 feet

- 393 — **Cyanus.**—Blue "Emperor Flower"..... 5
 394 — **Bachelor's Button.**—Many colors mixed..... 5

Cash Prize of \$25.00 for the best flower grown from this seed, shown at the Chicago or Milwaukee Chrysanthemum Show of 1891, labeled as produced from our seed. The premium plant to be sent to us, for which we will send 3 plants to the successful grower the following spring.



CHRYSANTHEMUM INODORUM.



CHRYSANTHEMUM MAXIMUM.



DOUBLE CORNFLOWER, OR BACHELOR'S BUTTON.



CHRYSANTHEMUM FRUTESCENS OR PARIS DAISY.

CELOSIA OR COXCOMB.

Highly ornamental plants, for bedding and pot culture. 1 to 3 ft. H. H. A.

- C. New Giant Empress.**—Very large bright crimson combs and dark bronzy foliage; beautiful variety..... 10
 — **Tall Sorts.**—Splendid mixture..... 5
 — **Dwarf Sorts.**—In great variety mixed..... 5
 — **Fire Feathered.**—The feathered varieties of the Celosia rank amongst the most decorative annuals. The feathery flowerheads of this grand sort, which are produced on numerous branches are of an intense orange-scarlet or fire color of great beauty. They are equally effective as solitary plants and if planted in groups..... 10
 — **New Gold Feathered.**—The feathered flowerheads are of a golden-orange color, a grand plant..... 10
 — **Reld's Perfection.**—Beautiful variety with feathered plumes of the richest magenta-red..... 10
 — **Feathered varieties mixed**..... 5

CLIANTHUS.

GLORY PEA OF AUSTRALIA.

One of the most gorgeous plants in cultivation, with clusters of pea-shaped flowers, each flower marked with intense black spots in the center. H. H. shrub.
 418 **C. Dampieri.**—Flowers of a vivid scarlet. 3 feet..... 25

COBÆA.

A rapid growing climber, sometimes attaining the length of thirty feet in a season; it is of very easy culture and will give excellent satisfaction. The large bell-shaped flowers are produced in great profusion. To prevent it from rotting, place the seeds edgewise and cover slightly with light soil. H. H. P.
 420 **C. Scandens.**—Purplish lilac..... 10
 421 — **Alba.**—White..... 15

COLEUS.

(See illustration on third cover page.)

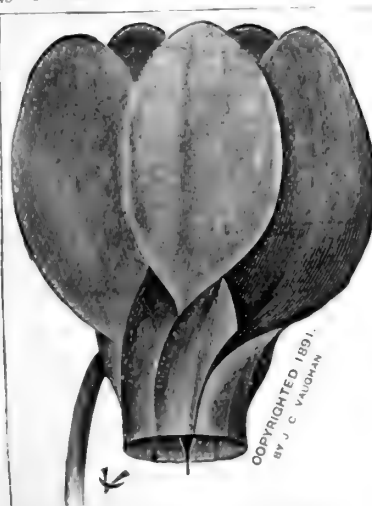
Highly ornamental plants in an endless variety of colors and shadings, indispensable for ribbon and carpet bedding, or as single specimens. Height, 1 to 2 ft.
 423 **C. Finest Hybrids.**—In splendid mixture..... 15
 425 **COLLINSIA, Bicolor.**—Purple and white..... 5

COLUMBINE. See *Aquilegia*.

CONVOLVULUS MAJOR OR MORNING GLORY.

A well known climber, free flowering, succeeds well in almost any situation. Height, 15 feet. H. A.

- 427 **C. White.**..... 5 | 428 **C. Blue.**..... 5
 429 — **Crimson**..... 5 | 430 — **Striped**..... 5
 431 **Many Colors Mixed.**—Oz., 20c..... 5
 432 **Collection of six distinct colors.**..... 20



GIANT-FLOWERED CYCLAMEN

CYCLAMEN.

Valuable as a winter and spring bloomer, for pot culture in parlor or conservatory. If sown early in spring under glass, with right treatment, will make flowering bulbs in one year. C. P. (See also "Bulbs and Plants.")

- 449 **C. Persicum.**—Fine mixed colors..... 10
 450 — **Grandiflorum.**—Splendid mixed..... 15



COXCOMB, President Thiers.

VAUGHAN'S SPECIAL SELECTED STRAIN.

This is the most dwarf of all Coxcombs and bears largest crimson combs. It has been grown in our public parks between or alongside of rows of Golden Feverfew and Centaurea Candidissima and when so planted made one of the most brilliant strips of border bedding ever seen, its heavy compact heads making a solid mass of crimson contrasting against the foliage of other plants. Price, per packet, 15c.; 2 for 25c.

Office of WEST CHICAGO PARK COMMISSIONERS.

CHICAGO, Nov. 1st, '90. We had the finest dwarf Coxcombs, President Thiers, from you I ever saw, and found it one of the most valuable plants for bedding; your strain produced immensely large combs, well formed and of the most dazzling crimson scarlet color. In habit they were all that could be desired, robust and compact. I also had some of the finest tuberous-rooted Begonias obtained from your seeds. In fact I am well pleased with all the seed from your place.
 CHAS. ZAPPEL, Head Gardener Douglas Park.

CHICAGO, Oct. 20, '90. The Coxcomb, President Thiers, we had last summer, (seed supplied by you) were the finest we ever had, and the admiration of the thousands of visitors who saw them. They elicited more admiration than any other plant we had in the whole park.
 JOHN SELL, Head Gardener Garfield Park.

CONVOLVULUS MINOR.—DWARF MORNING GLORY.

Excellent annuals for beds, masses, window boxes, etc., remarkably rich in color, and very free-blooming. 1 foot. H. A.

- 135 **C. Kermesinus Violaceus.**—The flowers have a bright yellow eye, encircled with snowy white, margined with rich crimson violet. 10
 436 — **Tricolor.**—Violet, purple and white in one flower..... 5
 437 — **Tricolor Roseus.**—A charming variety. The center of the rose colored flowers is surrounded with purplish violet, and changes toward the throat into golden yellow..... 10
 438 — **Minor.**—Many varieties mixed, per oz., 25c..... 5
 439 — **Mauritanicus.**—Fine for hanging baskets, beautiful blue flowers 5
 441 **CORAL TREE (ERYTHRINA).**—A hardy shrub, beautiful spikes of pea-shaped blossoms..... 15

COSMOS.—(See third cover page.)

- 442 **COWSLIP.**—A very free-blooming early spring flower, useful for borders. 9 in. H. P. Mixture of fine varieties..... 5

DOUBLE DAISY. See *Bellis*.

- 444 **CYCLANTHERA, Explodens.**—A handsome climber, growing 10 ft. high, with oval fruits which explode loudly when ripe. H. H. A. 5

CYPRESS VINE—IPOMEEA QUAMOCLIT.

Very handsome climber; foliage light and graceful, flowers brilliant; excellent for trellises, walls, etc.

- 446 **C. White, Pink, and Crimson.** Each..... 5
 447 — **Many Colors.**—Mixed..... 5

BRAZIL, IND., Nov. 29, '90. I can earnestly say that I had good success with your Aster, Pansy and Verbena seeds. I cannot say too much about them.
 MRS. JOHN BROWNLEE.

GIANT FLOWERED OR GIGANTEUM SORTS.

These have flowers of double the size of the old types, borne on long, stiff stems well above the beautiful marked foliage, while the colors are most beautiful and brilliant, ranging from the purest white to pink and the deepest crimson scarlet.

- 451 — **Mont Blanc, Snow white,** large..... 25
 452 — **White with Pink Eye,** very delicate..... 25
 453 — **Roseum, Lovely pink.**..... 25
 455 — **Dark Crimson, deep, rich color.**..... 25
 456 — **Atrosanguineum, deep blood-red.**..... 25
 457 — **Giant Flowered Sorts,** in splendid mixture..... 25

CUPHEA.—CIGAR PLANT.

Bears curious blossoms somewhat resembling a lighted cigar. Pretty for bedding purposes and for house culture; very ornamental. 1 ft. H. H. A.

- 460 **C. Purpurea.**—Mixed..... 5
 461 — **Platycentra.**—Bright scarlet. 10
 462 — **Roezli.**—Of pyramidal habit, flowers vermilion and orange..... 10

DATURA OR TRUMPET FLOWER.

It is strange that so many of the most beautiful and showy of our annuals are so little known and cultivated, these are amongst them. These Trumpet Flowers or Thorn Apples, as they are also called, grow 2 to 3 feet high, and form a handsome bush covered with deliciously fragrant flowers, until late in the fall. They are annuals and easily grown.

- 466 **D. Fastuosa alba pl.**—Flowers white and double (hose in hose)..... 10
 467 — **Many colors mixed.**..... 5
 468 **EDELWEISS.**—The true and famous Edelweiss of the Alps. The flowers are of downy texture, pure silvery-white and star-shaped. Succeeds in almost any not too rich soil, with full exposure to the sun..... 25

FEVERFEW. See *Pyrethrum*.

FOX GLOVE. See *Digitalis*.

Remember that our flower seeds are all fresh and true to name and not to be compared to commission seeds.



NEW HYBRID COLEUS.

* DAHLIAS. *

WHEN SOWN EARLY DAHLIAS WILL BLOOM THE FIRST YEAR FROM SEED.

The single varieties have become very popular within the last few years, and deservedly so, for in brilliancy of color and duration of flower they have hardly any equal. They are extensively used for cutting, 3 to 5 ft. H. H. P.

475 **Best Single Dahlias.**—An extra fine mixture from named sorts of single hybrids including all the novelties offered below..... 10

476 **Large Flowering Double.**—A mixture from prize flowers..... 15

477 **Zimpani or Miniature Black Dahlia.**—A very little known variety from Mexico, which owing to its merits deserves a foremost place in the flower garden. The plants grow about 2 feet high and very bushy, and produce an abundance of the deepest crimson-maroon flowers of a velvety texture measuring 3 in. across. They are easily raised from seed, 10c.

NEW DAHLIA JULES CHRETIEN.

478 A new dwarf-growing variety attaining a height of but 3 feet. The flowers are single, very numerous, of beautiful form, well above the foliage, of the **brightest, most dazzling scarlet imaginable.** This novelty is splendidly adapted to bedding, and will furnish an abundance of cut flowers. Pkt. of 25 seeds, 10c.

STRIPED SINGLE DAHLIAS.—DAHLIA GRACILIS.

479 The large flowers grow three inches and over in diameter and are of the **brightest colors**, white, pink, magenta, orange, yellow and deep purple, and are **striped, rayed, mottled and blotched in the most grotesque and charming manner.** The habit of the plant is extremely graceful, its many beauties combining to render it the most gorgeous of recent introductions. Taking into consideration that the culture of **Dahlias from seed** is one of the easiest, being sown in February, March and April, it **will flower the same season** from August until fall, this novelty cannot fail to be universally grown everywhere. Pkt. 10c.; 3 for 25c.

NEW DWARF STRIPED DAHLIA.

480 This new variety is a selection from the above and possesses all the fine qualities of its parent as to brilliantly colored, striped, spotted and mottled flowers, combined with the extraordinary advantage of **growing only about 24 in. high**, forming handsome globular bushes, useful for borders, beds and masses. Pkt. 25 seeds 10c.

NEW DAHLIA PRESIDENT CARNOT.

481 This new sort is quite distinct through its dark bronzy foliage which contrasts very strikingly with the dazzling brilliancy of its scarlet flowers which are produced in great numbers and borne well above the foliage. Price, per packet of 10 seeds, 10c.

Special Offer. One packet each of Nos. 476, 477, 480 and 481 for 35c.

DIANTHUS (PINK.)

THIS is one of the most desirable families of plants. Its species are very numerous, embracing some of the most popular flowers in cultivation, indispensable for bedding, bordering, etc. All are of fine shape, and many are deliciously fragrant.

NEW SPOTTED CHINA PINK.

DIANTHUS CHINENSIS PICTUS FL. PL.

485 In this we have a very valuable addition to these beautiful plants, the pure white flowers are freely spotted and splashed with a deep red, making a pleasing contrast. Pkt. 10c.; 3 for 25c.

NEW DOUBLE WHITE JAPAN PINK.

DIANTHUS HEDDEWIGII DIADEMATUS ALBUS PLENUS.

486 This sort is the result of many years' patient selection. The vigorous plants grow in neat bushes about one foot high which are covered with large, pure white, very double flowers from June until late in the fall. These flowers will last a long time after being cut and are very useful for bouquets, etc. Per pkt., 10c.; 3 for 25c.

VAUGHAN'S IMPROVED JAPAN PINKS.

487 This strain is a great improvement on that ordinarily offered, being a selection from the choicest strains in cultivation. The flowers are **extraordinarily large**, of handsome form, and embrace the most beautiful colors ranging from white to the most delicate pink and glowing deep crimson. The plants grow about 12 inches high, and are excellent for both beds and cut flowers. Pkt., 10c.; 3 for 25c.

VAUGHAN'S IMPROVED DOUBLE JAPAN PINKS.

488 This is also a strain superior to any we have previously had, and cannot fail to give entire satisfaction. The flowers are very large, double, of the brightest colors, are handsomely fringed and borne on long, stiff, stems, which latter fact, combined with their other good qualities, renders them one of the most useful flowers for bouquets. Pkt., 10c.; 3 for 25c.

NEW STRIPED DOUBLE PINK.

489 This beautiful variety also belongs to the Japanese class, and is one of the finest of the whole family. The flowers, which are very large and double, are beautifully fringed and of the greatest variety of colors. A bed of these in a flower garden will make a grand display, and at least a package of it should be included in every order. Pkt., 10c.; 3 for 25c.

NEW PINK, THE BRIDE.

490 A new and very charming variety of the well known and popular class of Japan Pinks. The handsome large flowers are pure white with a deep purplish-red center, surrounded by a still darker ring, forming a very pleasing contrast with the white ground color. Pkt., 10c.

491 **D. Chinensis.** (Double Chinese Pink)—Extra choice mixed, per oz., 50c..... 5

492 **Albus Plenus.**—Double white. 1 foot..... 5

493 **Nanus Roseus.**—An exceedingly pretty variety, flowers brilliant double pink..... 5

494 **Imperialis.**—(Double Imperial Pink) mixed colors..... 5

495 **Atrosanguineus Pl.**—Double crimson. 1 foot..... 5

496 **Heddewigil.**—Large flowered, single Japan Pink, All colors mixed, ¼ oz. 25c. 5



D. HEDDEWIGII FL. PL. OR DOUBLE JAPAN PINK.



D. CHINENSIS FL. PL. OR DOUBLE CHINA PINK.



VAUGHAN'S IMPROVED SINGLE JAPAN PINKS.



SINGLE STRIPED DAHLIAS, FLOWERS ½ NAT. SIZE.

DIANTHUS (PINK.)—CONTINUED.

- 37 **D. Hedderwigii Fl. Pl.**—Double Japan Pink. Splendid mixture..... 5
 38 — **Double Dark Blood Red.**—A most brilliant and effective color for beds..... 5
 39 — **Diadematus Fl. Pl.**—A decided improvement on the above; the growth is sturdy, the flowers large, the colors ranging from lilac and crimson to the deepest purple; the edges of the petals are finely fringed, and have a clearly defined white margin..... 10
 40 — **Mourning Cloak.**—The most striking of all the Pinks. The large double, almost black flowers, have a clear fringed edge of white which is unusually distinct and charming..... 10
 41 — **Laciniatus.**—Very large, deeply fringed flowers in rich colors. A mixture of many colors..... 5
 42 — **Fl. Pl.**—Double, deep fringed flowers. Extra choice mixed..... 5
 43 — **"Eastern Queen."**—Beautifully marbled, the broad bands of reddish lake upon the paler surface of petals is very striking and pretty. One of the most valuable of late introductions..... 5
 44 — **"CRIMSON BELLE."**—Is of a rich vivid crimson color; flowers are finely fringed..... 5
 45 — **Plumarius.**—(Pheasant's Eye Pink.) Handsome single fringed flowers, white with dark centers..... 5
 46 — **Plumarius fl. pleno.**—Double large flowering, Pheasant's Eye Pink, with fringed edges of various colors, mixed hardy..... 10
 47 — **Nanus Albus Plenus.**—Dwarf double white or Snowball..... 5
 48 — **Nanus Flore Pleno.**—Mixture of dwarf sorts..... 5
DOUBLE AND SINGLE PINKS.
 49 A mixture of all the above mentioned annual Pinks. Per pkt. 5c.; 6 for 25c.; per ¼ oz., 25c.



DODECATHEON ELEGANS.

DRACÆNA OR CLUB PALM.

Beautiful Palm-like plants indispensable for decorative purposes, make splendid house plants and grow readily from seed. G. P.

- 528 **D. Indivisa Lineata.**—A very handsome sort cultivated on a large scale by many florists..... 10
 529 — **Many sorts mixed.**..... 10
DUTCHMAN'S PIPE See *Aristolochia*.

ESCHSCHOLTZIA.

CALIFORNIA POPPY.

An exceedingly showy class of plants, bearing a profusion of rich yellow flowers. Sow the seed where the plants are wanted to bloom, as they do not stand transplanting; thin to six inches apart. H. A.

- 534 **E. Mandarin.**—The inner side of the petals is of a rich crimson, and the exterior orange-crimson. It is a beautiful variety and deserves to be widely grown..... 5
 535 — **Californica Alba Pl.**—Produces a large percentage of double white flowers of great beauty..... 10
 536 — **"Rose Cardinal."**—Very pretty, deep carmine flowers, which remain in bloom for a long time..... 5
 537 — **Many Varieties.**—Mixed..... 5
 540 **EUPHORBIA (SNOW ON THE MOUNTAIN).**—A native of the west, foliage is beautifully veined, margined with white. 1½ ft. H. A. 5

- 541 **EUTOCA Viscida.**—Free-flowering plants, for beds, borders. 1 ft. H. A. 5
 542 **EUPATORIUM Fraseri.**—Valuable plants for fall and winter blooming. 10
EVERLASTING OR ETERNAL FLOWERS.
 (SEE ACROCLINEUM, AMMOBIUM, GOMPHRENA, HELICHRYSUM, XERANTHEMUM.)

FORGET-ME-NOT OR MYOSOTIS.

Pretty little favorites with lovely clusters of fine delicate flowers. They succeed best in a damp, shaded situation, but will thrive well in any garden soil. 6 in. H. A.

DELPHINIUM OR LARKSPUR.

Perennial Varieties.

- 14 **D. Formosum.**—Bright blue with a white center; fine for bouquets; and a splendid garden decoration; quite hardy. 5 feet..... 5
 15 — **Celestinum.**—One of the most brilliant of hardy perennials; flowers of a charming sky-blue, 3 feet..... 10
 16 — **Nudicaule.**—Flowers bright orange-red, borne on stems 12 to 18 inches high, very pretty..... 10
Annual Varieties.
 Very showy plants with pretty flower spikes, free bloomers, should be sown in fall or in early spring.

- 18 **D. Double Dwarf Rocket.**—Fine mixed 5
 19 — **Tall Rocket.**—Mixed. 2½ feet..... 5
 20 — **Bismarck.**—Fine mixed colors..... 5
 21 — **Emperor.**—Most excellent of all the annual Larkspurs, producing an abundance of long slender flower spikes in the most brilliant as well as delicate colors. Many colors mixed..... 5

- 24 **DIGITALIS OR FOX GLOVE.**—A stately plant, flowers thimble-shaped and spotted, borne in dense spikes. Height, 3 feet. H. P. Many colors mixed. 5

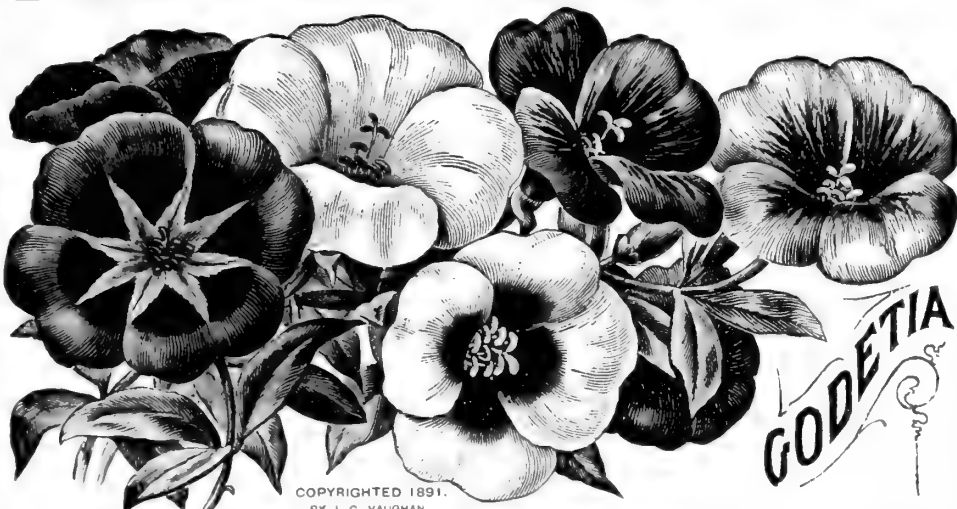
DODECATHEON MEDIA ELEGANS.

SHOOTING STAR, OR AMERICAN COWSLIP.

25 Very ornamental, hardy perennial, well worthy of general cultivation. This is a very excellent form of the Shooting Star growing wild in the west, having flowers of a deeper color, the leaves are shorter and broader, the flower-stems shorter and the umbels more numerous than in the old type. It is an excellent plant for borders or sheltered places in the garden, and does equally well in the pot, for this purpose it should be taken up in the fall and placed in 6 inch pots. They should not be planted exposed to the sun. Pkt., 10c.

DOLICHOS OR HYACINTH BEAN.

- 26 **D. Atrosanguineus.**—One of the best annual climbing vines. The leaves are both light and dark green, prominently veined with red, the stalks and stems are dark red, and the large clusters of flowers, borne well out from the foliage, are a beautiful deep rose color, while the large shining seed pods are also ornamental, being of an intense blood-red..... 10
 27 — **Many colors mixed.**..... 5



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GODETIAS.

Of hardy annuals none are more beautiful than these and if planted singly or in masses the effect is grand. They are of dwarf, compact habit of growth, the flowers are of handsome shape, in the most brilliant as well as delicate colors and produced in such a profusion that they completely hide the foliage. They are of very easy culture and will thrive in any common garden soil. H. A.

- 570 **Godetia, Duchess of Albany.**—Flowers glossy satin white, produced in great profusion. 12 in..... 5
 571 — **Bijou.**—Flowers splendid white with dark red spot; not over 6 inches high; forming carpet-like bushes of 12 inches and over in diameter, bearing 200 to 300 flowers to a plant..... 5
 572 — **Lady Albemarle.**—Flowers large of carmine crimson shade; the edges of the petals suffused with pale lilac, dwarf..... 5
 576 **Godetias Many Varieties.**—Extra Choice Mixed..... 5

- 573 — **Lady Satin Rose.**—Most magnificent sort, unequalled for brilliancy and richness of color. The flowers, which are produced in remarkable abundance, are of a brilliant deep rosy-pink, the surface shining like satin..... 10
 574 — **The Bride.**—White with crimson center..... 5
 575 — **Queen of the Faints.**—A most charming variety with large pure white flowers bordered with satin-rose and beautifully spotted with carmine..... 10

blooms are wanted by Christmas, take up the bulbs in August and plant in 4 inch pots, 6 to 8 bulbs in each; water sparingly at first, give plenty of sunlight and water more freely as growth advances. The beauty and delicate fragrance of the flowers will repay the care given. Pl., 15c.

FUCHSIA.

Well known pot plants with beautiful flowers. G. P.

- 548 **F. Single Varieties.**—Best mixed..... 15
 549 — **Double Mixed.**..... 25
 550 **GEUM Coccineum Pnium.**—Flowers of a bright dazzling scarlet, double and as they last well when cut, are invaluable for bouquets. This is undoubtedly a first-class perennial, as is well worthy of general cultivation. Pkt., 10c.
 551 **GILIA.**—Free-blooming dwarf plants, valuable for mixed beds; rock work etc. H. A. Mixed colors..... 10

FINCASTLE, VA., April 1, '90. I have grown your flower seeds for many years and never had a failure.
 HELEN MILLER.

FREESIAS FROM SEED.

547 These pretty bulbous plants, with their sprays of fragrant pure white flowers can be raised from seed and made to bloom the first year. Sow the seed in March in a cool frame or greenhouse; if

plants, with their sprays of fragrant pure white flowers can be raised from seed and made to bloom the first year. Sow the seed in March in a cool frame or greenhouse; if

GAILLARDIA (OR BLANKET FLOWER.)

One of the most brilliant and useful of garden flowers. Most suitable for bedding, producing large flowers in great abundance throughout the entire summer. 1½ feet. H. A.

552 **G. Picta Lorenziana**.—This new double variety produces large globular heads of various colors in great abundance throughout the entire summer. The seed offered is mixed, containing sulphur and golden yellow, claret, red and purple. Most valuable for cutting and bedding..... 5

HARDY PERENNIAL GAILLARDIAS.

553 These are undoubtedly among the choicest of Hardy Perennials; the flowers are large, very numerous, excellent for cutting and of the most brilliant shades of orange, crimson, scarlet and vermillion, and very often a combination of all these colors in one flower. Many colors mixed..... 10

Geranium (PELARGONIUM)

Well known favorites, used extensively for bedding in masses, ribbons, etc. When sown early, Geraniums will bloom the first year from seed.

556 **G. Zonale**.—A mixture of the finest single sorts. 25

557 ————A good mixture 5

558 — **Apple Scented**. True, very fragrant foliage, a great favorite..... 15

559 — **Double**.—A choice mixture, which will produce a large percentage of double flowers..... 25

560 — **Lady Washington**.—Well known pot plant. 25

— GENTIANA. —

One of the very best hardy plants. They are very sensitive about removal, hence seeds should be sown where the plants are to bloom. H. P.

561 **G. Acaulis**.—Beautiful blue flower, yellow throat, very rich..... 10

— GOLDEN ROD. —

562 Much interest is now taken in this plant as it is named as a candidate for our National flower. Fine yellow. H. P..... 10

563 **GNAPHALIUM Leontopodium**.—The white star shaped Edelweiss of the Alps. A favorite flower..... 25

GOLDEN FEATHER, see Pyrethrum.

GLAUCIUM (HORN POPPY.)

564 **G. Luteum**.—Very showy plant, valuable for edging and massing; leaves silvery white, beautifully recurved; flowers yellow, bell-shaped, 2 ft..... 5



NEW SCARLET GLOXINIA "DEFIANCE."

575 **New Scarlet Defiance**.—The flowers, this most beautiful sort are large, borne upright, and of an intense glowing crimson scarlet, a color not yet found among Gloxinias. They are true from seed and will certainly please every lover of this charming plant..... 35

579 **Emperor Frederick**.—Color fiery scarlet to nearly the base of the throat; the outer edge of the large flowers is clearly defined, pure white broad band, a most charming and effective combination..... 35

SAMOTH, ILL., Nov. 11 '90. I have been so well satisfied with all my purchases from you, that I have advised all my neighbors to send you their seed orders.
A. B. AGNEW.

GLOBE AMARANTH. (GOMPHRENA GLOBOSA.)

Attractive everlasting, producing very freely large clover-like heads of flowers, useful for winter-bouquets. Height 2 feet. H. H. A.

566 **G. Alba**.—White..... 5

567 — **Purpurea**.—Deep red. 5

568 — **Aurea**.—Golden yellow 5

569 — **Mixed**.—Many colors... 5

GLOXINIA.

A magnificent class of house-booming bulbous plants, with handsome bell-shaped flowers in diversity of the richest colors. Our International Mixture contains the finest English, French and German strains, and will produce the finest flowers, with spotted and blotched throats.

575 **G. International Mixture**. The best strain in existence, embracing all the choicest colors of largest flowers..... 25

CLIMBING GOURDS. USEFUL, ORNAMENTAL AND FANCY.

Price, per Pkt., 5c.; any 6 for 20c.

This most curious and interesting family is but little known and we have succeeded in collecting in Europe one of the most complete lists ever offered. The forms may be wonderfully varied by tying strings around the young fruit, or enclosing the same in a carved mould while growing, thus stamping on its surface

any desired figures or letters which may be carved on the mould. Start the seed in a pot in the house and plant as soon as danger from frost is over. Nearly all of the larger sorts require the whole season to mature properly. Give them a sunny situation and plenty of water.

583 **Bottle Gourd**.—Large

584 **Powderhorn**.

585 **Siphon**.

586 **Farinosa**.—Flour Gourd

587 **Jerusalem Bottle**.

588 **Bryonopsis**.—Scarlet white stripe.

589 **Grossularia**.—Gooseberry Gourd.

590 **Argyrosperma**.—Large edible seeds.

591 **Dudain**.—Fragrant orange fruit.

592 **Dipsaceus**.—Teazle-like yellow fruit.

593 **Erinaceus**.—Hedgehog Gourd.

594 **Flexuosus**.—Snake cucumber.



NEW HARDY PERENNIAL GAILLARDIAS.

595 **Anguria**.—Green and white, large.

596 **Metuliferus**.—Scarlet, thorny.

597 **Tashkent**.—New, very high growing species with handsome small white flower.

598 **Pearshaped**.—Green, white striped.

599 **Hercules Club**.—Large, club-shaped.

600 **Sugar Trough**.—Immense size.

601 **Turk's Turban**.—Very showy, scarlet fruit.

602 **Coccinea Indica**.—Scarlet fruit.

603 **Longissima**.—Grows up to four feet long.

604 **Enormis**.—Enormously large fruit.

605 **Depressa**.—Flat Corsican, dark green.

606 **Su-Kawack**.—Water bottle.

607 **Sirkai-Kawack**.—Vinegar bottle.

608 **Kalian-Kawack**.—Tobacco box.

609 **Nas-Kawack**.—Snuff box.

The four last named are beautiful, quick growing sorts with highly interesting fruit, used as household furniture in their native land, as the names indicate.

610 **Aurantiaca**.—Orange shaped.

611 **Squirting Cucumber**.

612 **Sooly Qua**.—Fruit five to six feet long.

613 **Ostrich Egg**.

614 **Dish Cloth Gourd**.

615 **Many Sorts** in finest mixture.

618 **HEDYSARUM Coronarium** (French Honeysuckle).—Showy border plants with racemes of pea-shaped red and white flowers. H. B..... 5

HELICHRYSUM (EVERLASTING FLOWERS.)

Very popular Everlastings with globular flowers, useful for borders and beds. When used for dyeing, flowers should be picked before fully expanded.

619 **H. Monstrosum Fl. Pl.**—A mixture of many varieties. 2 feet..... 5

620 — **Nanum Fl. Pl.**—Many dwarf sorts mixed 5

— HELIOTROPE. —

Deliciously fragrant plants, excellent for bedding; also for house culture. Seed sown early bring flowering plants the first summer. H. H. P.

621 **H. King of the Blacks**.—Very deep..... 10

622 — **Boule de Neige**.—(Snowball)..... 10

623 — **Dr. Livingston**.—Very fine dark sort..... 10

624 — **Fine Mixture** of dark flowering sorts... 5

625 — **Light and dark shades mixed**..... 5

626 **HESPERIS** (Sweet Rocket).—Charming plants with sweet-scented flowers; useful for bouquets. Mixed colors..... 10

ATLANTA, ILL., Oct. 26, '90. One of the vines bore five gourds, some of them over 4 feet in length. They were quite a novelty to those who saw them.
J. M. BOYD.



CLIMBING GOURDS

HELIANTHUS OR SUNFLOWER.

Although this class is already a common and popular one, it contains a number of handsome and useful varieties not generally known or cultivated. In addition to the common Sunflower, which is planted for its seeds (excellent as chicken feed) we offer the following list of choice sorts which make beautiful plants for lawns, along fences, etc. The foliage of some is very decorative, while the mammoth flowers of others elicit general admiration. Their easy culture as well as showiness should secure them a place in every garden.

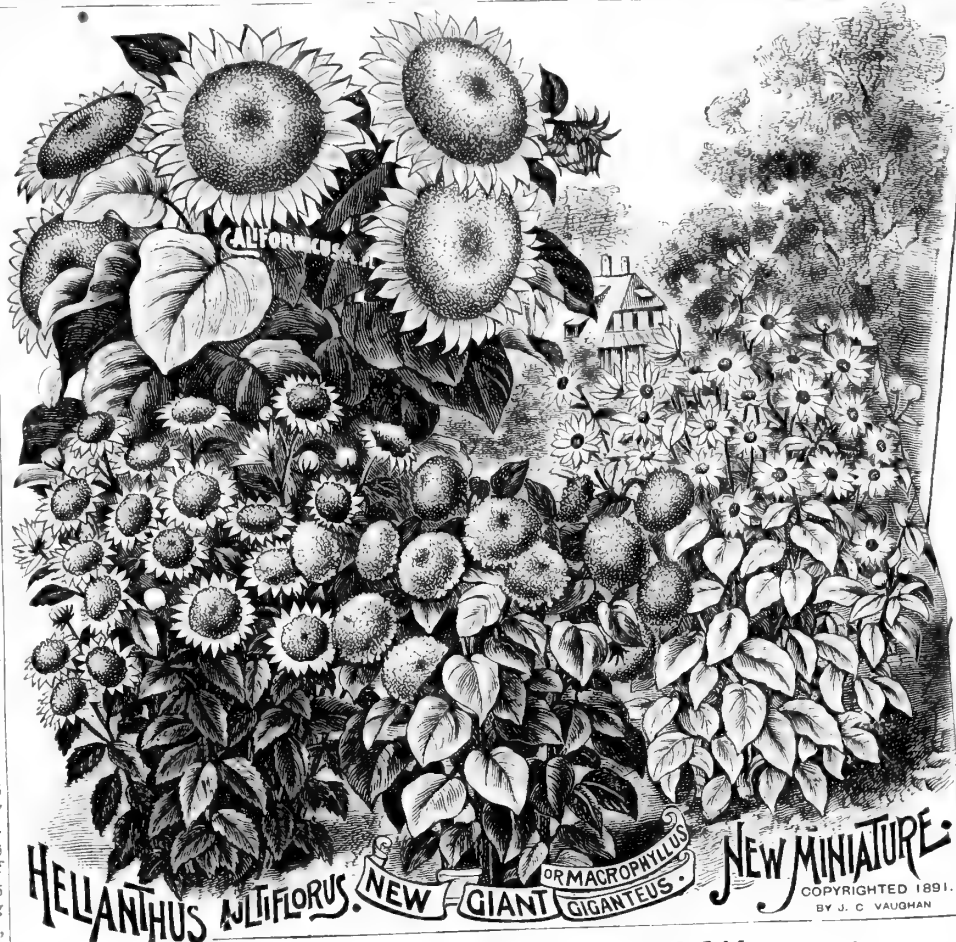
- 630 **H. Californicus fl. pl.**—Extra large and very double flowers..... 5
- 631 **Oscar Wilde.**—Flowers single, petals very long and of a bright golden yellow, while the centre of the flower is black..... 5
- 632 **Nanus fl. pl.**—A dwarf variety, growing about 2½ feet high, flowers very double, rich golden yellow, 5 to 7 in. in diameter..... 5
- 633 **Globosus Fistulosus.**—Flowers immense, from 12 to 15 inches in diameter, globular and extremely double; the most effective of all annual Sunflowers..... 5
- 634 **Silver-Leaved (Argophyllus).**—The whole plant, which grows to 6 feet in height, is covered with a dense silky silver-white felt; the flowers are very numerous, single, with a jet-black centre..... 5
- 635 **NEW MINIATURE.**—In this new variety we have a flower which is not only bright and showy, but elegant in shape, and of size convenient for wearing and for bouquets. The plants are dwarf and very bushy, very free-blooming, with small fine foliage. Flowers are single, bright yellow, with a dark centre and very decorative; they last for days when cut, and bloom from July until frost..... 5
- 636 **Macrophyllus giganteus.**—Grow from 8 to 10 feet high, each stalk producing a single flower measuring 18 in. in diameter.. 5
- 637 **Multiflorus.**—Plants grow in shape of pyramid produce numerous double flowers.. 5
- 638 **Silver King.**—A new species growing about 8 feet high; has large silvery-white leaves, large golden yellow flowers of great beauty, 10
- 639 **Sulphur Queen.**—Another new species growing 8 feet high, with large silvery foliage and very large, bright sulphur-yellow flowers..... 10
- 640 **Mammoth Russian.**—As the name implies of giant size, seeds are used largely for chick feed while the stalks furnish excellent fuel in wood-poor countries, per oz., 30c.; 5

NEW GIANT SUNFLOWER

- 641 A plant of imposing beauty and immense growth. The shoots will soon attain a height of 10 to 12 feet, and are crowned with a cluster of golden yellow flowers, each individual flower being borne on a long and slender stem. A useful and ornamental plant..... 15

NEW SUNFLOWER "TEXAS SILVER QUEEN."

- 642 This new and exceedingly effective sort is a species from the H. Argophyllus. It is a native of the South where it attains a height of ten feet, forming a stately pyramid, literally covered with flowers which contrast strikingly with the silvery grey of the foliage. Per packet, 10c.; 3 for 25c. 5
- 643 **Mixture of many varieties**, per oz., 15c..... 5
- 644 **Collection of 6 different sorts**, one pkt. each for 25c.



HELIANTHUS MULTIFLORUS

NEW GIANT

NEW MINIATURE
COPYRIGHTED 1891.
BY J. C. VAUGHAN

HOLLYHOCK. MALVEN ODER STOCK ROSEN.

Old fashioned favorites which should be in every garden. Seed should be sown in June and July to have flowering plants the next summer, or if sown in house early in spring they will bloom the first year. The seed we offer has been saved from one of the finest collections, and will produce very double flowers of great beauty. Height 5 to 7 feet. H. P. (For Roots see Plant Department.)

- | | |
|---|----------------------------|
| 646 H. Double White..... 10 | 649 H. Salmon..... 10 |
| 647 —Pink..... 10 | 650 —Canary Yellow..... 10 |
| 648 —Crimson..... 10 | 651 —Maroon..... 10 |
| 652 —Faust, black flowers edged with white..... 10 | |
| 653 —Fine Mixed, double, all colors..... 10 | |
| 654 —Extra Choice Mixed.—Saved from Exhibition flowers..... 10 | |
| 656 HONESTY (Lunaria Biennis). —The silvery seed pouches are interesting, pretty and ornamental; flowers purple, borne in racemes..... 5 | |

ICE PLANT (MESEMBRYANTHEMUM.)

Suitable for rock work, hanging baskets; foliage thick, fleshy, of a frosted wax-like appearance. H. H. A.

- 658 **M. Crystallinum.**—Purple flower..... 5
- 659 **Cordifolium Variegatum.**—Leaves of a creamy color, fine for carpet bedding..... 15

IMPATIENS OR ZANZIBAR BALSAM.

- 660 **I. Sultan.**—A perennial Balsam from Africa, of recent introduction. The plant is of compact growth and produces an abundance of gorgeously colored rosy carmine flowers. Is one of the most distinct and beautiful plants for window culture in winter; of easy culture..... 25

JAPANESE HOP (HUMULUS JAPONICUS.)

- 661 Very hardy, withstanding heat, drought and insects remarkably; one of the most rapid growing ornamental climbers known; foliage resembles the common hop, but is denser. Invaluable for any position where a thick screen of foliage is needed..... 10
- 662 **JACOBÆA (Senecio) Elegans fl. pl.**—Very pretty free-flowering plants, densely covered with double, distinctly colored flowers. H. A. Many colors mixed..... 5
- 663 **Nana fl. pl.**—Double dwarf sorts, well adapted to bedding, many colors mixed..... 5
- 664 **KAUFUSSIA Ameloides.**—Dwarf plants, compact and free-blooming; flowers blue. 6 in. H. A. 5
- 665 **LANTANA Hybrida.**—A shrub-like plant, bearing numerous clusters of verbenalike flowers in endless variety of colors. Desirable for bedding and house plants. Best Hybrids mixed. 3 to 5 ft. H. H. P. 10

LATHYRUS (EVERLASTING PEA.)

Ornamental, free-flowering plants, grow in any soil. Useful for covering trellises, verandas, etc. 6 ft. H. P.

- 666 **L. latifolius albus.**—One of the most useful hardy plants for cutting purposes; flowers large of an ivory whiteness, and produced in great abundance..... 10
- 667 —**Latifolius.**—Mixed colors..... 5
- 668 **SPLENDENS.**—The Pride of California.—The handsomest flowering Pea in cultivation, being in constant bloom throughout the summer..... 10

BOURBON, IND., March 27, '90. Your seeds all GROW.

JESS D. CHAPLIN.



IMPATIENS

SULTANI

VAUGHAN'S
SEED STORE
CHICAGO

4

1.

5

SWEET PEAS
"BOREATON"
"ORANGE PRINCE" "GRAND BLUE"
"INVINCIBLE STRIPED" & WHITE

3

SWEET PEA
"MISS BLANCHE FERRY"

"NEW COSMOS HYBRIDS"

"NEW HYBRID COLEUS SEED"

"ACALYPHAS"

"MANETTIA VIRENS"



SWEET PEAS.

Very beautiful, free-blooming climbers. One of the most popular flowers we sell; so satisfactory under the most ordinary treatment, and so universally a favorite flower for personal wear or table decoration. We offer an English importation of the finest old and new colors. Prized not only for the beauty of the flowers, but also for their delightful fragrance; easily grown, and invaluable for trellis work, covering walls, unsightly objects, etc. Names in brackets are synonyms by which those varieties are also known. 6 feet. H. A.

1000 White.—For bouquets. | 1002 Purple.—Rich shade.
1001 Striped. | 1003 Black.—Showy.
1004 Butterfly.—Pure white, border lavender blue.
1005 Painted Lady.—Pink and white.
1006 Crown Princess of Prussia.—Bright blush, shading to rose. | 1007 Scarlet Invincible.

1008 ADONIS.—Bright rosy carmine..... 5

1009 VESUVIUS, (VENTS).—Very large and of great beauty, the upper petals being brilliant rose, shading to a deeper hue, and spotted carmine; the lower petals are clear blue, reflecting rose and lilac..... 5

1010 PRINCESS BEATRICE.—Rich and beautiful carmine rose, slightly shaded with lighter and darker tints. It has a very robust and free-blooming habit..... 10

1011 INVINCIBLE CARMINE, (CARDINAL).—The flowers of this beautiful variety are of an intense crimson carmine; the brightest colored of all Sweet Peas..... oz., 20c.; 10

Per packet, any of the above, 5c.; per oz., 15c., except where marked.

VAUGHAN'S NEW SWEET PEAS.

Under this heading we have grouped a selection of the best, most distinct and beautiful varieties of New Sweet Peas introduced the last few years. We have weeded out such sorts as have proved identical or unworthy of comment and so secured a list of New Sweet Peas not equalled in choice of varieties, beauty of colors and extraordinary size of flowers.

1015 MISS BLANCHE FERRY.—This is a new Sweet Pea of great merit. Immense pink and white flowers of perfect form, which possess deeper, richer coloring and are more fragrant than Painted Lady. Fully ten days earlier than any other sort; of dwarf, compact growth, requiring no support; a most profuse bloomer, it produces more flowers than any other variety, the vines are completely covered with them. The flowers have larger stems than other varieties, a point very important to the florist. It continues in bloom longer than any other. All florists who planted it, and thousands of amateurs who tried it unite in giving it words of unstinted praise. Pkt., 10c.; 3 for 20c.; oz., 40c.; ¼ lb., \$1.00; lb., \$3.00.

1016 VIOLET QUEEN.—Dwarfer in habit than the other varieties; the flowers range in color from the deep mauve of the keel to light violet of the guard petal. Per packet, 10c.

1017 BOREATON.—A very fine dark Pea with bold stout flowers, the standard being a rich shining bronzy crimson, wings of beautiful crimson purple, shaded with rose. A distinct and beautiful sort. Per pkt, 15c.

1018 DUCHESS OF EDINBURGH.—Very beautiful, standard light scarlet slashed with crimson, slightly margined at the edge with cream-white, wings tipped with rose. Per packet, 10c.

1019 APPLE BLOSSOM.—The standards are bright rosy pink, the wings blush, a beautiful shade of apple-blossom, one of the most charming sorts. Per packet, 15c.

1020 SPLENDOR.—Flowers very large, color pinkish rose shaded with crimson. An elegant variety. Pkt., 15c.

1021 PRINCESS OF WALES.—A very distinct variety, shaded and striped with mauve on white ground. The flowers are very large, of great substance and perfect form. Per packet, 15c.

1022 GRAND BLUE, (IMPERIAL BLUE).—The wings are pure bright blue, slightly shaded with mauve, the standard is a deep rich purple touched with rose. A very handsome and effective variety. Per packet, 10c.

1023 ORANGE PRINCE.—Bright orange-pink, flushed scarlet, wings bright rose, veined pink. Packet, 10c.

1024 INDIGO KING.—Dark maroon purple with indigo-blue wings. Very pretty. Per packet, 10c.

1029 QUEEN VICTORIA.—A new white variety of extra large size and good substance. Per packet, 15c.

1030 Collection of 10 new varieties, 1 (regular size) pkt. each, 75c.

1031 Collection of 6 new varieties, your choice, 1 pkt. each, 75c.

1032 MIXTURE OF NEW SWEET PEAS.—This mixture is made up by ourselves from the above new sorts and will give the most satisfactory results. We particularly recommend this mixture as the finest ever offered for sale. Per pkt., 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00, postpaid.

1033 MIXTURE OF SWEET PEAS.—All colors both standard and new varieties, splendid mixed. Per large pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 80c., postpaid.

1025 QUEEN OF THE ISLES.—A very handsome sort. The large flowers are scarlet, mottled and flaked with white and purple. Per pkt., 10c.

1026 ISA ECKFORD.—A most charming variety. Flowers very large, rosy pink, shaded with carmine. Per packet, 15c.

1027 FAIRY QUEEN.—The wings are a milky-white, while the standard is tinted with pink; very delicate. Per packet, 10c.

1028 NELLIE JAMES.—Pure pink and white (not Painted Lady), nearly two weeks earlier than most sorts, a most profuse bloomer with long stems continuing in flower until the late frosts; from two to four blossoms on a stem. Have cut by actual count, 500 flowers from one plant in 60 days. Per packet, 10c.; 3 for 25c.

OUR ILLUSTRATIONS ON THIS SHEET AND FOURTH COVER PAGE.

7.—COSMOS.—This plant is of strong growth, having elegant foliage, and for fall blooming has no superior. Seed sown in April or May and transplanted to open ground will produce plants five or six feet high by September, and from then till November will be covered with hundreds of blossoms three inches across, resembling single Dahlias. Planted in pots and brought inside to flower like Chrysanthemums, they are grand. They are of various shades, from pure white to purplish crimson. Both foliage and flowers are unsurpassed for bouquets and vases. It is one of the most beautiful fall flowers, and will please all who grow it with a little care and attention.

Improved Hybrids.—All colors mixed. Pkt., 10c.; 3 for 25c.

Pure White "Pearl."—Pkt., 15c.; 2 for 25c.

NEW EVERBEARING CUCUMBER.

We would call special attention to this entirely new variety. It is of small size very early, enormously productive, and valuable as a green pickler. The peculiar merit of this novelty is that the vines continue to flower and produce fruit until killed by frost whether the ripe cucumbers are picked off or not, differing in this respect from all other sorts. The one vine exhibits at the same time cucumbers in every stages of growth, the small ones being perfect in shape, of a fine green color, and just the size for pickling. Per pkt., 10c.; ½ oz., 35c.; oz., 70c.; ¼ lb., \$2.00; lb., \$7.50.

8.—COLEUS SEED.—Our seed has been saved from the finest collection in Europe comprising over 250 different varieties in the most brilliant colors and elegant, large foliage. If sown in March or April fine plants may be had at planting time, they also make handsome pot plants. Pkt., 15c.

VANDERGAW CABBAGE.

One year before this variety was introduced and named we secured a small stock and named it *Vaughan's Market Gardeners*. A year later it was named and sent out as Vandergaw and has been more largely sold under that name than ours, therefore not desiring to perpetuate synonyms we have concluded to drop the name we gave it and use only *Vandergaw*. If planted early it is ready for use nearly as quick as Henderson's Summer, while with late planting it may be used for Fall or Winter, being of good size, and very solid. Reports from customers and our own knowledge of its merits justify us in saying: *It is undoubtedly one of the best varieties for general crop and all purposes that can be found* and we again urge its great merit for the purposes stated above. We offer seed grown by the originator. Pkt., 10c.; oz., 25c.; ¼ lb., 95c.; lb., \$3.50.

Yellow Peach Tomato and Ignatum Tomato, see page 32. Non Plus Ultra Radish, see page 27. Manettia Vine, see page of climbers.

MIMULUS.

(MONKEY FLOWER.)

- A very free blooming genus of plants, with beautiful spotted and blotched flowers of brilliant colors. Successes best in shaded and damp situations. H. H. P.
- 750 **M. Tigrinus**.—A showy variety with flowers handsomely blotched in many colors..... 5
- 751 — **Flore Pleno**.—Double varieties in mixed colors; very pretty..... 10
- 752 **Moschatus**. (Musk Plant).—The thin delicate leaves emit a pleasant musk odor..... 10
- 753 — **"Emperor."**—A remarkable new variety, which is a cross between the well-known Hose-in-Hose Mimulus or Monkey-Flower and the newest large flowering varieties. The calyx is extremely large, and of the same rich color and markings as the true corolla, making this one of the most showy and attractive of the Mimulus, and it will be prized equally for the garden and for pot culture..... 15

MOONFLOWER.

(IPOMOEÆ.)

756 **Moonflower, White Seeded**.—(Ipomœa noctiflora).—Its luxuriance of foliage and splendor of bloom combine to make it one of the most beautiful of all annual climbers. It bears in the greatest profusion its lovely immense white flowers, five to six inches in diameter, with a five-pointed star in the centre; the flowers open at dusk or earlier on cloudy days, at which time they are deliciously fragrant. To obtain the most favorable results, start early in the house and set out as early as safe in the spring; the vines make very rapid growth, often attaining a height of 25 feet in one season. Pkt., 10c.; 3 for 25c.

757 **New Cross-Bred Moonflower**.—This new variety is a cross between the black and white seeded Moonflower, combining the characteristics and good qualities of both. It is of a luxuriant growth, an abundant bloomer, and will flower from four to five weeks before the white seeded varieties, which renders it a most valuable sort for growing north. The flowers are pure white, very large and delightfully fragrant. Pkt., 10c.

758 — **Leari**.—This is a grand companion to the White Moonflower, which it resembles in all respects, except in color, which is a lovely satin blue with crimson bars. If planted with the white sort the effect is fine. It is of easy culture. Pkt., 10c.

759 **I. Bona Nox**.—(Evening Glory).—Violet flowers large and fragrant, especially in the evening..... 5

760 — **Rubro Cœruleo**.—Gorgeous large flowers of a beautiful sky blue..... 10

761 — **fl. albo**.—Magnificent climber with splendid white flowers..... 10

762 — **Scarlatina**.—A most beautiful climber from Fernando Po. The flowers are of a magnificent cinnabar-red, are borne in umbels; planted with I. rubro cœruleo the effect is very striking..... 10

763 — **Coccinea**.—(Star Ipomœa).—Scarlet flowers in profusion..... 5

764 — **Horsfalliæ**.—A showy and handsome climber from the West Indies, with deep rich, glossy rose-colored flowers..... 15

For Moonflower Plants see our "Page of Climbers."

MORNING GLORY, see *Convolvulus*.

MOURNING BRIDE, see *Scabiosa*.

MUSA ENSETE.

(ABYSSINIAN BANANA.)

767 This is one of the grandest and most picturesque of the Banana family; as a solitary plant or in groups on the lawn, it has a very majestic and tropical effect. The leaves are very long and broad, of a beautiful green with crimson midrib in striking contrast. If planted in a warm spot, in a well-manured mixture of leaf mold, rich loam and sand, it will attain a height of from ten to eighteen feet. An occasional application of liquid manure and frequent watering are necessary. If the seed is sown early in hot-beds and repotted several times, the plants will attain a height of over ten feet the first summer. The rapidity of its growth is astonishing. Packet of 5 seeds, 25c.

NEMOPHILA.—(LOVE GROVE).

A dwarf, very free-blooming class, with very richly colored flowers; succeeds best in a shaded and moist situation. Height, 1 foot. H. A.

- 768 **N. Insignis**.—Brilliant blue, white center..... 5
- 769 — **Discoidalis**.—Black, white margined..... 5
- 770 — **Maculata**.—White, with purple spots..... 5
- 771 — **Fine Mixed**..... 5



MUSA ENSETE, OR ABYSSINIAN BANANA



NICOTIANA AFFINIS.

(Sweet-Scented Tobacco Plant.)

772 This recently introduced Tobacco plant has given such entire satisfaction that it now occupies one of the most conspicuous positions among the ornamental plants of the flower garden. It attains a height of about two feet and produces an abundance of large pure white flowers, which expand fully in the morning and evening, emitting a delicious fragrance. It also succeeds finely as a house plant. If the plants are taken up in the fall, cut back and potted, they will bloom all winter. It is of easy culture, and will grow in any common garden soil. Per pkt., 10c.

NICOTIANA COLOSSEA.

Giant Tobacco Plant.

773 This new Tobacco Plant ranks foremost among the annual foliage plants and is a novelty of sterling merit. It is an annual, grows to the enormous height of 9 feet, the leaves are covered with a silky felt when young but turn to a deep rich green and grow 3 feet long with a diameter of 20 inches. The stalk being red contrasts very pleasingly with the dark green foliage. It is most effective as a solitary plant on the lawn and also in combination with other foliage plants. The stalk is very stiff and strong and the leaves tough, which enables the plant to resist heavy winds and adds greatly to its adaptability to above purposes. Pkt., 25c.

774 **Nicotiana Atropurpurea Grandiflora**.—A most effective decorative plant on the lawn; flowers dark red and leaves large..... 5

775 **NIGELLA Hispanica**. (Love in a Mist).—Free-blooming plant, with blue flowers and very graceful foliage; grow in any garden soil. Height, 1 foot. H. A..... 5

776 **NOLANA**.—Very pretty annual, trailing habit, with Morning Glory-like flowers, well adapted to rock work. 6 in. H. A. Mixed colors..... 5

777 **NYCTERINIA Capensis**.—Sweet-scented little plants with star-shaped flowers, valuable for rock work and edgings. 6 inches. H. H. P. 5

ÆNOTHERA (EVENING PRIMROSE.)

Derives its name from the fact that it opens its flowers just before the sun goes down. H. P.

780 **O. Macrocarpa**.—A vigorous growing perennial, forming a compact trailing mass, covered with deep golden yellow flowers 3 inches across. A very useful plant, which grows in almost any soil or situation..... 5

781 — **Mixed**..... 5

ORNAMENTAL GRASSES.

782 **AGROSTIS Nebulosa**.—Light, feathery and graceful, fine for winter bouquets. H. A..... 5

783 **COIX Lachrymæ Aurea Zebrina**..... 10

784 **ERIANTHUS Ravennæ**. (South American Pampas).—Handsome, hardy perennials, tall specimens for lawns. 10 feet..... 10

785 **EULALIA Japonica**. (Zebra Grass).—Leaves striped across. H. P. 7 ft..... 10

786 **GYMNOTHRIX Latifolia**.—Handsome bamboo-like clumps, effective on lawns. 10 ft. H. H. A. 10

787 **LAGURUS Ovatus**. (Hare's Tail Grass).—Woolly, cone-shaped heads, fine for winter bouquets. 1 ft. H. A..... 5

788 **STIPA Pennata**. (Feather Grass).—Delicate, long silvery-white feathers, fine for winter bouquets. 2 feet. H. P..... 10

789 **MANY SORTS**, in finest mixture..... 5

OXALIS.

showy little plants, suitable for rock work, rustic baskets and the greenhouse; flowers of brilliant colors. Height, 6 inches. H. H. P.

790 **O. Tropæoloides**.—Flowers deep yellow, leaves brown, excellent for ribbon bedding; this variety is largely used in our parks..... 10

791 — **Rosea**.—Rose colored, good bloomer..... 5

PALMS.

We offer a few of the choicest varieties for house decoration and such as are of easiest culture. These are not hardy. Cultural directions on each bag.

795 **Areca**.—Beautiful Palm, arching leaves. 5 seeds, 25c.

796 **LATANIA Borbonica** (Fan Palm).—Leaves large fan-shaped, dark glossy green, on long strong stems; very decorative. 5 seeds, 20c.

797 **Phoenix Canariensis**. (Date Palm).—Very ornamental, one of the best for house culture. 10 seeds, 15c.

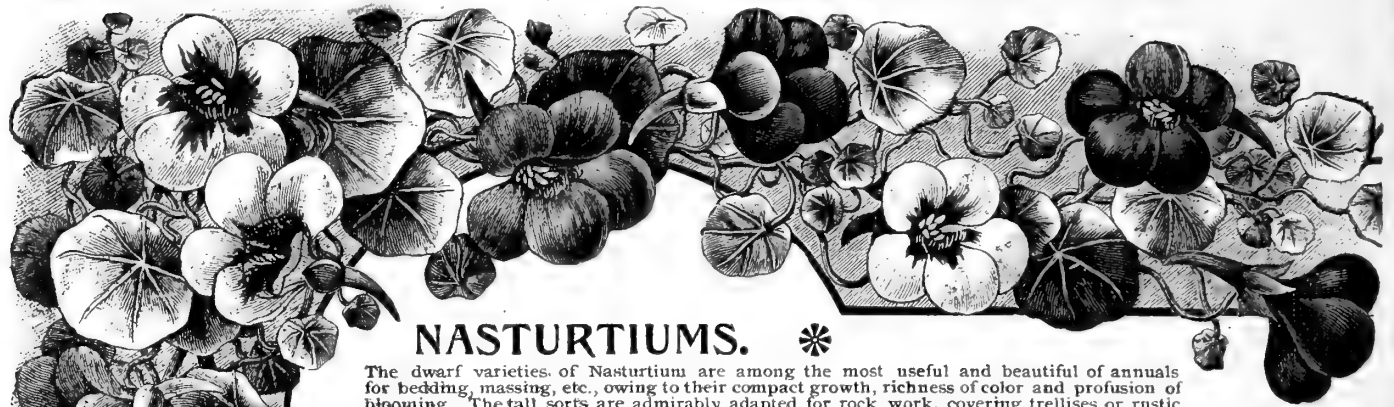
798 **Pandanus Utilis** (Screw Palm).—Make a very handsome dinner table decoration. 5 seeds, 25c.

799 **Washingtonia Robusta**.—A magnificent palm, it grows very rapidly, is the hardiest of all the Palms and resembles the elegant growth of the *Latania borbonica*. 10 seeds, 25c.

800 **Washingtonia Filifera**. (Brahea filamentosa).—The California Fan Palm, a hardy, vigorous growing plant foliage very regular, of a bright green, deeply and regularly pinnated, the margins of each being covered with long hair like filaments, giving them a very remarkable appearance among other fan palms. 10 seeds, 15c.

801 **Chamærops Excelsa**.—One of the hardiest of the Palms; foliage dark green; the segments of the fan deeply cut, almost to the top of leaf-stalk, which are on the edges covered with tooth-like spines. 5 seeds, 10c.

802 **Kentia Belmoreana**.—One of the most graceful Palms—splendid for table decorations. 5 seeds, 25c.



NASTURTIIUMS. *

The dwarf varieties of *Nasturtium* are among the most useful and beautiful of annuals for bedding, massing, etc., owing to their compact growth, richness of color and profusion of blooming. The tall sorts are admirably adapted for rock work, covering trellises or rustic work. They flower most profusely when planted in a poor soil, and remain in bloom for a long time; stand heat and drought without the slightest effect. The seed, if picked young, is an excellent substitute for capers. H. A.

TOM THUMB OR DWARF NASTURTIIUMS.

- 941 Pearl.—Creamy white
 942 Rose.—Very desirable.
 943 King of Tom Thumbs.—Intense scarlet flowers and dark foliage.
 944 King Theodora.—Bluish green foliage, flowers velvety crimson.
 945 Golden King.—Brilliant yellow.

- 946 Crystal Palace Gem.—Sulphur-yellow with maroon spots.
 947 Empress of India.—Splendid new dwarf variety, with very dark leaves and crimson flowers.
 948 Ruby King.—Of a peculiar blue-tinted red.

- 949 Ladybird.—A new and distinct sort. The ground color is a rich golden-yellow, each petal barred with a broad vein of bright rosy crimson; very showy and charming.
 950 Many Varieties.—Mixed; oz., 25c.
 951 Collection.—6 separate colors, 20c.

NEW DWARF NASTURTIIUM "AURORA."

953 This magnificent variety of new color is a valuable addition to our grand list of Dwarf *Nasturtiums*; the plant forms a perfect globe and is literally covered with flowers, completely hiding the foliage when in full bloom. The flower is of a deep chrome yellow, the upper petals showing lighter reflexes while the two lower petals are blotched with purplish carmine and marked with bright carmine veining. The color is very pleasing and entirely distinct. The past season we had opportunity to observe its hardiness and climate-resisting quality. When all other sorts had faded, AURORA was still in its beauty and continued so until killed by the frost. Per pkt., 10c.; 3 for 25c.

SEE ALSO TROPÆOLUM.

MAJUS OR TALL NASTURTIIUMS.

- 955 Straw Color.
 956 Dunnett's Orange.
 957 Scarlet.
 958 Collection of 6 varieties, one packet each, 20c. | 963 Many varieties, extra mixed. Oz., 20c.
 959 Scarlet Striped.
 959 Crimson.
 960 Light Yellow.
 961 King Theodora.—Very fine; dark foliage and bright scarlet flowers.

All the above *Nasturtiums*, per pkt., 5c., except where noted.



NASTURTIIUM, "LADY BIRD."



PETUNIA, LARGE FLOWERING FRINGED.

969 Collection of Large Flowering Petunias, 12 vars., \$1.00. | 990 Collection of Large Flowering Petunias, 6 vars.,

PETUNIA HYBRIDA.

Charming free-blooming effective plants of easy cultivation. The hybrid sorts are especially fine in mixed borders and beds, while the larger flowering kinds with their delicate colors and pervading fragrance are deserving favorites for pot culture. The seed we offer is sure to produce fine, well-developed flowers.

- 970 P. Dwarf Inimitable.—Each plant forms a complete bush 5 to 8 inches high, and is covered with brilliant cherry-red flowers, each being marked with a clear white star. It is invaluable for carpet bedding and pot culture. 15
 971 —Countess of Ellesmere.—Pink, white throat 5
 972 —Blotched and Striped.—Flowers with star-shaped blotches of symmetrical form, fine bedder. 5
 973 —Star of Lyons.—New, very fine. 10
 974 —Alba.—White, suitable for cemetery. 5
 975 —Finest Mixed.—A very choice strain. 10
 976 —Good Mixed.—Many colors. Per 1/4 oz., 25c. 5

Large Flowering Sorts.

- 980 —Superbissima.—Extra large flowers with black and white beautifully veined throats. 25
 981 —Prince of Wuerttemberg.—Crimson purple, with deep handsomely veined throat. 25
 982 —Princess of Wuerttemberg.—Beautiful rose color, deep white throat, maroon veining. 25

The two preceding varieties belong to the Superbissima type, which are among the finest of the *Petunias*; the flowers are generally from 4 to 6 inches in diameter, the plants are of very sturdy, bushy habit, and we can faithfully recommend them to all lovers of these pretty flowers.

- 983 —Maculata.—Very large flowering, blotched and striped. 25
 984 —Kermesina.—Extra large, brilliant crimson. 25
 985 —Black Prince.—Finest dark, velvety-violet, magnificent color. 25
 986 —Fringed.—A fine strain with handsomely frilled and fringed flowers, very distinct and pretty. 25
 987 —Marginata.—Very interesting variety with a deep and distinct margin of green, mixed shades. 25
 988 Yellow Throated.—The flowers are very large and of perfect form with a broad deep yellow throat, veined very much like a *Salpiglossis*. 50

Double Flowering Sorts.

- The seed of these is obtained by artificial fecundation, and about 30 per cent. of fine double flowers may be expected.
 992 P. Dwarf Double Liliput (Nana Compacta Multiflora Fl. Pl.)—New double kind, producing bushy plants, covered with small double flowers, which are partly spotted, blotched and self colored, making a very pretty plant when in full bloom. 25
 993 —Flore Pleno.—Best large flowering double in finest mixture. 25
 994 —Extra Large Flowering, Double Fringed.—This extra choice strain produces about 30 per cent. of splendid double fringed flowers. 50
 995 —Extra Large Flowering, Double Fringed, "Lady of the Lake."—This seed will produce about 30 per cent. large double white fringed flowers. 50
 996 Collection of Double Fringed *Petunias* of 6 vars. 75c.



PETUNIA, BLOTCHED AND STRIPED.

Do not forget our discount on packets. See page 33 for cheap collections.



TYPES OF GIANT PANSIES CONTAINED IN OUR INTERNATIONAL MIXTURE.

VAUGHAN'S PANSIES.

RENO, NEVADA, May 5, '90.
—My Pansy bed 5 feet wide and 70 feet long is the wonder of the town. Some of the blooms are 2½ inches across. REUBENGEISE.

LEAVENWORTH, KANS., March 26, '90.—Our Verbena and Pansy seed has all come up and we are well satisfied. BYRUS & EDWARDS.

BEAVER DAM, WIS.—The Chicago Park Pansies you sent me are wonderful for size and beauty of color.

C. PERRY.

OMRO, WIS.—From a package of Vaughan's International Pansy seed purchased last spring I have the largest assortment and finest Pansies ever seen.

MRS. F. A. COLE.

BROOKS, IND., Nov. 29, '90.—The Pansies did well; was very much pleased with them. S. C. JONES.

OTTUMWA, IA., Aug. 10, '90.—The Pansy seed bought of you last year surpassed all that has been seen in this neighborhood.

MINNIE DAGGET.

PANSIES ARE ONE OF OUR SPECIALTIES, and we take special pride and extraordinary pains to have the **very best seed** obtainable, regardless of cost, and we believe that the increasing demand for our seeds both from private customers and commercial florists proves that these efforts are appreciated. We are aware that every seedsman claims his strain of Pansy seed to be the "very best" and to emphasize it, all possible and impossible names (which in many cases prove the sole recommendation of the strains) are used to induce the public to buy; we do not believe it necessary to attach some high sounding name out of the animal or meteorological kingdom, ancient history or some remote part of the globe to our Pansy mixtures, but prefer to give them a name plain and simple, which in itself explains their composition, and we ask you **to try our seed and be convinced** of the above facts if you have not had the opportunity to see our pansies in bloom.

VAUGHAN'S INTERNATIONAL MIXTURE.

WE are possessed of some advantages as seedsmen which are worth noticing in connection with our trade in Pansy Seeds and we wish our customers to know them and be assured that their orders with us are in good hands. First, we carry one of the most extensive stocks of Florist's flower seeds in America and supply a large number of these most critical and careful buyers. Second, we have at our State Street Store each season the most exacting amateur buyers who show us their preferences in fancy markings, etc, from our plants in bloom and, finally, we have made personal inspection of the Pansy Seed farms and trial grounds of England, Germany, France and America. The result of our observation of the various strains produced and of the favorites in our market, prompted us to prepare and introduce in 1888 our **International Mixture**. It has proven more popular than we could reasonably expect and we may honestly claim it to be to-day **not only the best but the most widely known and admired**. It contains besides all the leading kinds of commerce, seeds of the Giant Bugnot, Cassier and Trimardeau with its flowers measuring, when well grown, three inches and more in diameter, and such beautiful colors as gold bronze, silver edged, marbled, mahogany spotted, claret red and many others. Our **International Mixture** will produce for you as it has for others a Pansy bed which shall be the wonder of the neighborhood and the joy of the owner. We have added every new or distinct strain offered us each year and shall keep the **International Mixture** up to date and we hope a little ahead of it in 1893.

1040 VAUGHAN'S INTERNATIONAL PANSY MIXTURE.—

Per pkt., 25c.; 3 for 60c.; 5 for \$1.00; per ½ oz., \$1.50.

ANGOLA, IND., Nov., 29, '90.—I had the most beautiful Pansies two years ago from your seeds that there was in town. I never saw such beautiful Phlox, Verbenas and Sweet Peas as I had last summer from your seeds. I always have good results from your seeds.

MRS. S. C. SNYDER.

PALATINE, ILL., Sept. 28, '90.—I have the most magnificent showing of Pansies in size and coloring from seeds of the Giant Bugnot.

MRS. E. R. CONVERSE.

CORNING, N. Y., July 10, '90.—The Pansies which I got from you 2 years ago were very fine and large, I had the choicest Pansies in the city. A. H. WOEPPLER.

SANTA MONICA, CAL., Nov. '90.—Very much delighted with your Pansy seed.

ED. DUNCAN.

JACKSONVILLE, ILL., Oct. 2, '90.—The Chicago Parks Mixture of Pansies came up splendidly.

FLOHR & WALTERS.

NEW GIANT PANSIES.

This new and entirely distinct race of Pansies is fast growing in favor and we are glad to add a few more new colors to our list.

1041 **Giant Cassier**.—A mixture of well-shaped flowers of gigantic dimensions in a very choice variety of colors, each flower is marked with fine large blotches.

1042 **Giant Auricula Colors**.—Very beautiful shadings.

1043 **Giant Emperor William**.—Color splendid ultra-marine blue, with well defined purple-violet eye.

1044 **Giant Trimardeau**.—Very large and showy. Pkt., 10c.; ½ oz., 50c.

1045 **Giant Striped**.—Flowers enormous size, beautifully striped.

1046 **Giant Trimardeau Improved**.—Well-known strain, flowers immense size, larger variety of colors than are generally offered under that name.

1047 **Giant Trimardeau Yellow**.—Very showy color.

1048 **Giant Trimardeau Purple**.—Flowers very little.

1049 **Giant Coal Black**.—Of immense size and coal black.

1054 **GIANT PANSY MIXTURE**.—This mixture comprises all the above strains and colors and will furnish a Pansy bed to the satisfaction of everyone. Per ½ oz., \$1.00.

PER PKT. OF ANY OF THE ABOVE, EXCEPT WHERE NOTED, 25 CTS.; ANY 5 FOR \$1.00.

We call special attention to our Margaret Carnation, Snowball Scabiosa, New French Cannas, Balsams and Asters.

1050 **Giant Trimardeau White**.—A most valuable addition to this family. Flowers white with a violet center.

1051 **Giant Copper Color**.—A most distinct and showy combination of very rich metallic shades.

1052 **Giant Beaconsfield**.—This strain combined with the peculiar coloring of the type will elicit general admiration.

1053 **GIANT BUGNOT**.—This is the finest strain of Pansies in existence. The flowers are of enormous size, perfectly round, of great substance and of the most varied and attractive markings and colors; each petal bears a blotch that runs out in delicate veins to the edge of the petal. Our "Bugnot" contains shades of red, bronze and reddish brown that are not to be found in any other Pansy mixture.

VAUGHAN'S PREMIUM PANSIES.

WHILE the Giant-flowered Pansies are great favorites owing to the immense size of their flowers, the *Premium Pansies* excel in their almost endless variety of shades of color combined with perfection of form and velvety texture and substance of their petals. Our strain of this is the most celebrated all over Europe, from a specialist who has devoted a life time to the improvement of these flowers and we know that no better strain of Pansies is to be had. It is impossible to describe the beauty and colorings of these Pansies embracing all the self colors, are spotted, marbled and striped, gold and silver margined in the most wonderful combinations and we can faithfully recommend our *Premium Pansies* as extraordinarily choice and fine.

Per pkt. (about 125 seeds) of any of the following, 15c.; any 6 for 75c.

- 1060 **Odier, or Five Blotched.**—A magnificent variety, each petal having a large blotch, with clearly defined margin; colors in many different variations; large.
 1061 **Lord Beaconsfield.**—Doubtless one of the most elegant Pansies. The ground color is purple violet, shading off in the top petals only to a whitish hue; the flowers are as large as those of the Giant Pansies.
 1062 **Improved Fancy or Striped.**—An improved strain with curiously edged flamed or striped flowers in an infinite variety of beautiful colors.
 1063 **Quadricolor, or Pheasant's Eye.**—One of the prettiest and most peculiar; the flowers are of a reddish steel blue, with red and white edge.
 1064 **VELVET GEM.**—This selection produces flowers of handsome deep claret red and some other shades of red not yet seen in any other strain.
 1065 **NEW PEACOCK PANSY.**—A first class novelty; the side petals are of a rich maroon, upper and lower petals royal purple shot with peacock blue, and each margined with terra cotta rose; a real grand flower.
 1066 **Dr. Faust, or King of the Blacks.**—Deep jet black, a beauty.
 1067 **Large Spotted White.**—One of the largest, an excellent bedder.
 1068 **Emperor William.**—Ultramarine blue, with dark center.
 1069 **Marbled Mixed.**—A handsome combination of marbled flowers.
 1070 **Brown and Gold.**—New. Very handsome, one of the oddest shades.
 1071 **Black with Gold Bronze.**—Very showy, very soft and velvety.
 1072 **Purple, Yellow Edge.**—(Gold Margined.) A clear cut, gold margin.
 1073 **Black with Red and White Margin.**—Very handsome.
 1074 **Black with Red and Yellow Edge.**—One of the finest colors.
 1075 **Brownish Purple with Gold Edge.**—Very distinct and beautiful.

- 1076 **Velvet Brown.**—Rich shades.
 1077 **Striped on Bronze Ground.**
 1078 **Spotted on Red Ground.**
 1079 **Dark Colors.**—Mixed.
 1080 **Snow Queen.**—Pure white.
 1081 **Light Blue.**—Delicate shades.
 1082 **Marbled Yellow Ground.**

- 1083 **Silver Edge.**—Dark purple violet.
 1084 **Deep Yellow.**—Very rich color.
 1085 **Havana Brown.**—Glossy brown.
 1086 **Purple-Mantle.**—Dark, velvety.
 1087 **Large Spotted White, blue edge.**
 1088 **Rosy Lilac.**—A very pretty shade.
 1089 **Old Gold.**—Very distinct and fine.

Vaughan's Premium Pansies in Splendid Mixture.

Embracing all varieties named in foregoing list and many other shades and many other shades and colors. Per pkt., 15c.; 4 for 50c.; per 1/2 oz., \$1.50.

PANSY SEED COLLECTIONS

12 colors of Premium Pansies.....	\$1.40
6 " " " " " " " " " " " "	.90
24 " " " " " " " " " " " "	1.20
12 " " " " " " " " " " " "	.60

The sorts in these collections are of our own selection, and we cannot make any changes.



CHICAGO, Dec. '90.
 J. C. Vaughan. Your "International Mixture" of Pansy seed has produced a bed of Pansies unsurpassed by the finest collection I have ever seen. The plants were very strong and vigorous, keeping in perfect bloom from June 1st till September, yet blooming when the early December snow cut their lives short. A. M. KNOBLE, Sec. of Columbia Park.

VAUGHAN'S CHICAGO PARKS BEDDING PANSIES.

Per pkt. of any of the following, 10c.; 3 for 25c.; 7 for 50c.; 12 for 80c.

This is the very best strain for bedding purposes; the plants are of vigorous and even growth, the flowers are large, of good substance and well above the foliage, the colors are true, rich and very distinct.

- 1091 **Beaconsfield,** purplish violet, upper petals light blue.
 1092 **Emperor William,** ultramarine blue.
 1093 **Fire Dragon,** fiery orange, dark eye, margined yellow.
 1094 **Prince Bismarck,** bronze and light brown, marbled.
 1095 **Baron Rothschild,** with dark brown spots.
 1096 **Golden Gem,** clear golden yellow, without black center.
 1109 **Havana-Brown.**
 1110 **Azure-Blue.**
 1111 **Mahogany Colors.**
 1112 **Light Blue.**

- 1097 **Odier,** flowers large, five spotted.
 1098 **Coppery Scarlet,** very bright.
 1099 **Pheasant's Eye,** rainbow colors.
 1100 **Silver Edge,** dark, light border.

- 1101 **Dr. Faust,** black.
 1102 **Dark Blue,** large.
 1103 **Striped or Fancy,** extra.
 1104 **Black with gold bronze.**

- 1105 **Pure Yellow,** fine for bedding.
 1106 **White,** with dark center.
 1107 **Snow Queen,** all white.
 1108 **Gold Margined,** very showy.

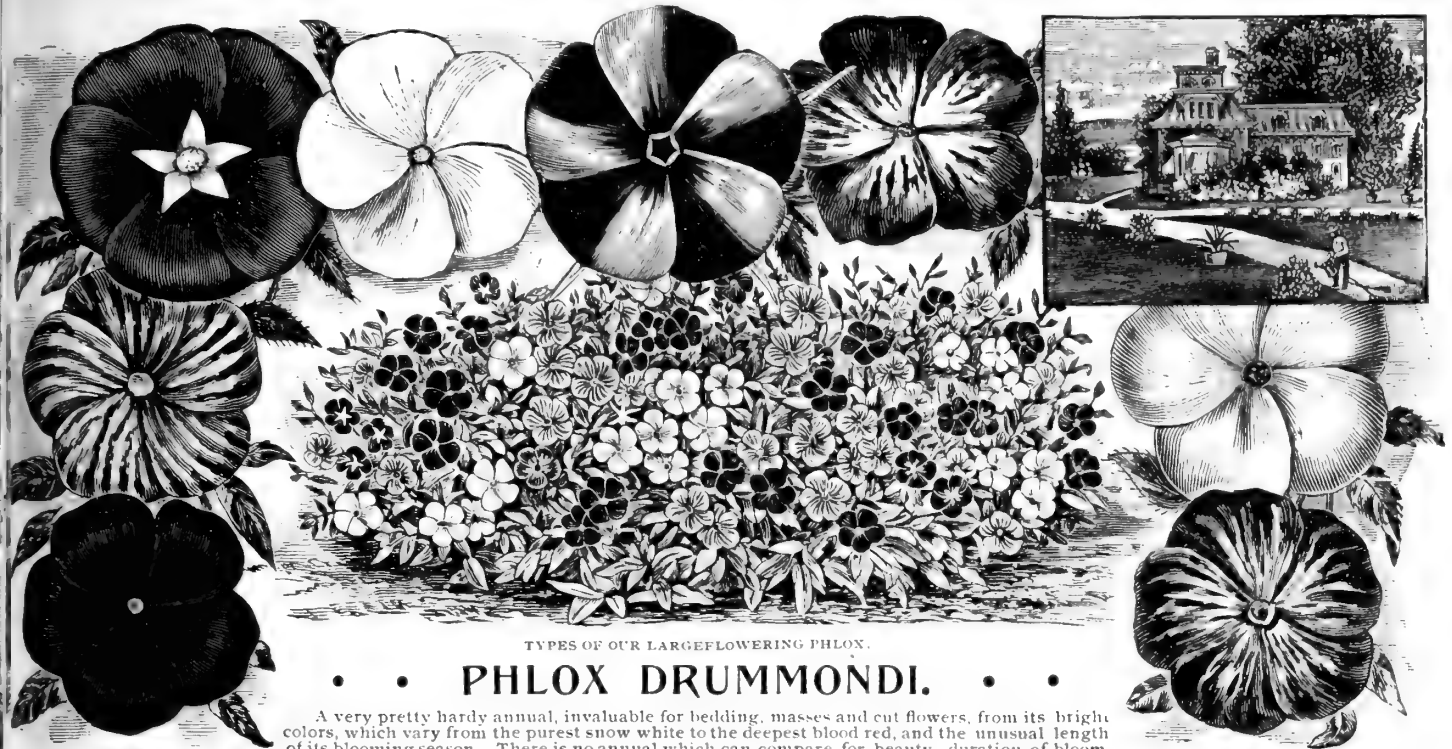
1113 **ENGLISH "Face Pansy."**—Each flower shows a distinct face; they are of a fine bright blue color, blotched with a very deep blue

1114 **VAUGHAN'S CHICAGO PARKS BEDDING PANSIES.**—Mixed, all the above. Pkt., 5c.; per 1/2 oz., 40c.
 1115 **PANSIES.**—Many shades and colors in good mixture Large pkt., 5c. per 1/2 oz., 30c.

PENTSTEMON. Among popular and hardy plants, few surpass Pentstemons for their usefulness and ornamental character. They commence to bloom in June, and continue until late in fall. They are very attractive and indispensable for beds, borders and cut-flowers. The flowers are half pendant, bell-shaped, and marked and marbled in beautiful bright shades. They should be planted into a rich open soil and protected during winter.
 1116 **P. Finest Hybrids.**—A splendid mixture. Per pkt., 10c. Don't forget to add this to your order.

DEVILS LAKE, DAK. The Petunias raised from seed purchased of you last year were the admiration of many friends.

MRS. A. O. WHIPPLE.

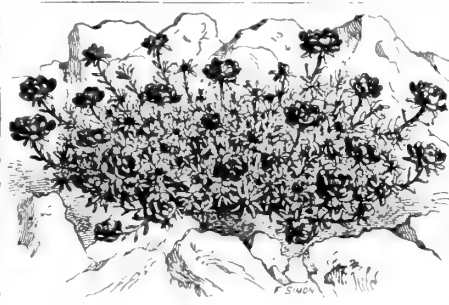


TYPES OF OUR LARGE-FLORING PHLOX.

PHLOX DRUMMONDI.

A very pretty hardy annual, invaluable for bedding, masses and cut flowers, from its bright colors, which vary from the purest snow white to the deepest blood red, and the unusual length of its blooming season. There is no annual which can compare for beauty, duration of bloom, brilliancy of colors and usefulness to the Phlox. We have an excellent strain. 1 foot. H. A.

130	P. Alba.—Pure white.....	5
131	Brilliant scarlet.....	5
132	Rosea.—Pink, beautiful.....	5
133	Atropurpurea.—Deep red.....	5
134	William I.—Crimson striped.....	5
145	Hortensæflora.—Large umbels of shining rose colored flowers.....	5
146	Striata.—Striped, white and rose.....	5
147	Isabellina.—Yellow.....	10
148	Many Colors.—Mixed.....	1 1/2 oz. 30c.
149	Collection of 12 distinct colors.....	5
150	Collection of 6 distinct colors.....	20



DOUBLE PORTULACCA.

PHLOX STAR OF QUEDLINBURG.

A very striking novelty of extraordinary character. The growth is generally dwarfier, and the habit more compact than that of the Phlox Drummondii; the chief difference, however, consists in the flowers, the centre petals of which are five in number, being much elongated, from four to five times the length of the lateral ones, thus giving the flowers a most distinct and regular star-like appearance, their attractiveness being greatly enhanced by the broad white margins, which border the edges of the petals. It has been awarded a first-class certificate of merit. Many colors, mixed. per large pkt., 10c.; 3 for 25c.

PHLOX DRUMMONDI FIMBRIATA.

The petals of all other Phlox varieties are entire, but in this variety they are partly fringed, partly three-toothed, the centre teeth are almost twice as long as the lateral ones, all distinctly bordered with white, which together with the bright eye of the centre, picturesquely contrasts with the magnificent velvety colors, consisting already of more than twenty-five splendid distinct shades. We offer it in finest mixture. Per large pkt., 10c.; 3 for 25c.

Phlox Grandiflora.—LARGE FLOWERING.

The large flowering kinds are a decided improvement on the Drummondii, producing flowers twice the size of the latter with the most brilliant colors imaginable.

154	Alba.—White.....	10
155	Intense scarlet.....	10
156	Rosy Carmine, white eye.....	10
157	Rosea.—Pink, white eye.....	10
158	Splendens.—Vivid crimson; large white eye.....	10
159	Stellata Splendens.—This fine variety resembles the Splendens, with the addition of a clearly defined pure white star, contrasting strikingly with the vivid crimson of the flowers.....	10
160	Large Flowering Phlox.—In splendid mixture. 1 1/2 oz., 25c.....	10
161	Collection of 12 distinct colors.....	75
162	Collection of 6 distinct colors.....	40



Phlox Nana Compacta.—Dwarf Sorts.

A quite distinct strain of dwarf and compact growth; very desirable for pot culture and ribbon bedding. Height, 9 inches.

1163	Nana Fireball.—Fiery scarlet.....	10
1164	Snowball.—Pure white.....	10
1165	Queen Victoria.—Scarlet flowers.....	10
1166	Chamois Rose.—Handsome shade.....	10
1167	Dwarf Sorts.—Choice mixture.....	10

Phlox Drummondii "Graf Gero."

1168 This new strain forms compact plants, well adapted for pot culture.—Mixed colors..... 10

Double White Phlox.

1169 In this new variety we have the first DOUBLE PHLOX yet introduced. It produces about 60 to 70 per cent. of PERFECTLY DOUBLE flowers of an exquisite pure white color and handsome shape..... 10

Hardy Phlox.—(Phlox decussata.)

These rank among the the finest herbaceous perennials for beds or borders.

1170	Phlox Decussata.—Mixture of the finest flowers.....	10
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PORTULACCA.—ROSE MOSS.

Small trailing plants which bear brilliant, beautiful and delicate flowers, whether used in baskets, beds or edgings, their splendid flowers, produced in great profusion are very effective; succeed best in light, sandy soil, and want to be exposed to the full glare of the sun. Height, 6 in. H. A.

1175	P. White.....	5
1176	Scarlet.....	5
1177	P. Pink.....	5
1178	Yellow.....	5
1179	Many colors extra choice mixed.....	5

Double Sorts.

1180	Double White.....	15
1181	Golden Yellow.....	15
1182	Pink.....	15
1183	Scarlet.....	15
1184	Mixed.—Choice double flowers.....	10
1185	Collection of 6 distinct colors.....	60

POTENTILLA.

1187 P. Formosa.—One of the most hardy perennials, growing about 2 feet high and producing numerous flowers of a bright cherry-red..... 10

POLYANTHUS.

These rank undoubtedly among the prettiest of plants for borders, rockeries, etc. When once established they grow in any common soil, but they succeed best in rich soil, and a position somewhat moist and shaded. 1 foot. H. P.

1190	P. Goldlaced, Mixed.—The flowers have a clear, even margin, or lacing of gold on a ground-color similarly well defined, extra choice mixed.....	25
1191	Mixed Varieties.....	10
1192	Hose in Hose, Mixed.—Curious and pretty; one flower set within another.....	25

PERILLA.

Excellent bedding plant with deep bronze foliage; very distinct and ornamental. H. H. A. Height, 15 inches.

- 1196 *P. Nankinensis*..... 5
 1197 — *Laciniatus*.—Cut leaved sort..... 5
 1198 — *Macrophylla crispa*.—Very large, dark, crimped foliage..... 5

POPPY.

Showy and ornamental plants with large flowers of brilliant colors. Very attractive in large beds, clumps and mixed borders. They are of very easy culture, and succeed in any garden soil; the seed should be sown where it is to remain, as they do not stand transplanting. Height, 2 feet. H. A.

SINGLE VARIETIES.

- 1201 *P. Danebrog*.—Flowers of a brilliant scarlet, bearing a silvery-white spot on each of the four petals..... 5
 1202 — *Umbrosum*.—Rich vermillion with a deep shining spot..... 5
 1203 — *Victoria Cross*.—A true brilliant cross of white which extends on both sides of the petal, while the large outside surface is a rich vermillion crimson..... 5
 1204 — *Mephisto*.—The flowers are of a glowing dark scarlet with rich velvety jet black blotches forming the shape of a cross, contrasting strikingly with the rich scarlet petals..... 10
 1205 — *Peacock*.—The most striking feature of the flower is the conspicuous glossy zone which marks the petals, forming a complete ring, equally apparent on both surfaces..... 5

NEW PERSIAN POPPY.

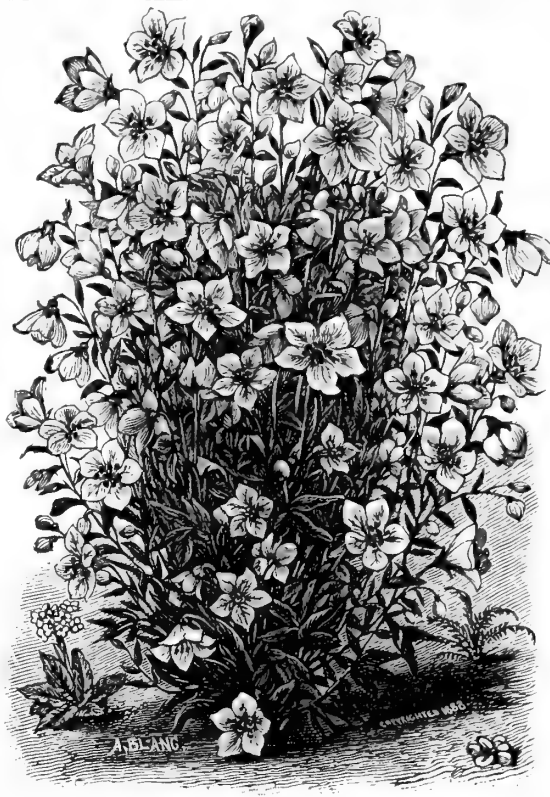
PAPAVER LÆVIGATUM.

- 1206 An exceedingly showy and free-blooming variety. The plant grows about 2½ feet high, with large, finely shaped flowers 4 inches across. The color is the most brilliant scarlet with shining black spots surrounded by a clearly defined white margin at the base of each petal. The two outside petals are double the size of two inside petals, so that each pair forms a separate round cup. The flowers keep comparatively very long, even after cutting. Another singular feature with this new sort is that the seed-pods throw off their cover when ripe. Seeds are slow of germinating. Pkt., 10c.
 1207 Mixture of all the above single Poppies..... 5

DOUBLE VARIETIES.

- 1208 — *Somniferum Fl. Pl.*—(Double Carnation Poppy.)—Fine double fringed flowers, mixed colors, ½ oz. 15c. 5
 1209 — Imported Collection of 12 separate colors..... 45
 1210 — Imported Collection of 6 separate colors..... 20
 1211 — *Rheas Fl. Pl.*—(Double French Poppy.)—Double mixed. Oz. 25c. 5
 1212 — *Pæony Flowered*.—This is undoubtedly one of the finest Poppies, the plant grows 3 to 4 feet high, and bears flowers which in size and colors are equal to Pæonies. Mixed colors..... Oz., 30c. 5
 1213 — Imported Collection of 6 separate colors..... 5
 1214 — *Hookeri Fl. Pl.*—Double flowered varieties; beautiful shades..... 10
 1215 — *Snowdrift*.—Pure snowy-white extremely double flowers of perfect form and large size. The habit of growth is very neat and compact..... 5
 1216 — *Double Danebrog*.—Flowers of a brilliant deep red, each of the petals being marked at the base with a silvery white blotch, giving it the appearance of a white cross on a rich red ground. Exceedingly charming..... 10
 1217 — *Umbrosum Fl. Pl.*—Flowers of a glowing vermillion with a deep black spot on each petal, very showy..... 5
 1218 — *Double Japanese Pompon*.—Flowers are small but very double and very numerous; they range through many lovely shades..... 10

- 1219 — *Fairy Blush*.—The immense globular flowers of this distinct Poppy are perfectly double, and measure from ten to thirteen inches in circumference; the petals are elegantly fringed and pure white, except at the tips, where they are distinctly colored with rosy cream; a light shading of lemon at the base of the central petal give the flowers an appearance of great depth. The flowers at a little distance have the effect of large white feathery balls, overcast with a rosy shade, while a close examination only discloses additional beauties. Each plant has from three to five of the magnificent flowers open at one time. Pkt., 10c.



PLATYCODON GRANDIFLORA.

1227 A hardy perennial plant from Japan which produces all summer an abundance of star-shaped flowers, three inches across, of beautiful blue and white colors. It is perfectly hardy, of easy culture and will last a long time, the plants increasing in size. Per pkt., 10c.; 3 for 25c.



THE SHIRLEY POPPIES.

1200 This entirely new strain of Poppies is the result of many years' selection and we can confidently say that it is the finest and handsomest novelty that has been sent out for a good many years. They are of the Ranunculus-flowered family, similar in every way to the Wild Scarlet Field Poppy of England and the continent, but the range of color—extending from pure white through the most delicate shades of pale pink, rose and carmine to deepest crimson—is so varied that scarcely two will be found exactly alike; whilst, to add to the effect, many are most delicately edged, shaded and striped. Those who are fond of the Wild Scarlet Poppy and the Blue Corn Flower of the English fields will be delighted with it in its new and charming colors. The form is most beautiful, being generally single or semi-double, as conveyed by our engraving, rendering it a very valuable flower for table and general decorations, as the blooms—although like all Poppies somewhat transient—when cut young, will stand for several days without dropping or fading. Per pkt., 10c.; 3 for 25c.

POPPIES CONTINUED.

1220 — *The Mikado*.—One of the most charming Poppies, introduced from Japan. The petals are whole at the base while the edges are frilled in the most pleasing manner. The flowers are of a pure white at the base while the fringed edges are of brilliant scarlet. This is undoubtedly one of the most effective annuals.....

1221 Mixture of all the above double Poppies. Oz., 50c.

PERENNIAL VARIETIES.

- 1222 *Papaver Orientale*.—Deep scarlet, dark purple spot at the base of each petal, one of the showiest of hardy perennials.....
 1223 — *Alpinum*.—Flowers yellow, rosette tinted. Height, 6 inches.....
 1224 — *Croceum*.—Orange-yellow, large and showy.....

ICELAND POPPIES.—(Papaver nudicaule.)

1225 These beautiful perennial Poppies produce flowers in great abundance the first year from seed. The colors range from the pure white and yellow to the deepest glowing orange scarlet, and have a delicious fragrance. The profusion of flowers which they produce is really astonishing. They are very fine cut flowers and will last a week if cut as soon as they are open. Mixed colors. Pkt., 10c.

PYRETHRUM.

FEVERFEW.

Yellow Foliage Sorts for Bedding.

- 1230 *P. Aureum* (Golden Feather).—Foliage bright golden yellow. ¼ oz. 30c.
 1231 — *Golden Gem*.—Double white flowers and golden yellow foliage.....
 1232 — *Selaginoides*.—(Fern leaved.)—Distinct. The neat golden foliage resembles two fern-fronds, one overlapping the other.....

Hardy, Flowering Varieties.

Showy, hardy, herbaceous perennials, with very bright flowers which remain in bloom for a long time.

1233 *Single Large-flowering Hybrids*.—These are invaluable as cut flowers for decorative purposes on account of their bright appearance and long duration. The colors include rich crimson-purple, cardinal red, bright pink, pale rose, pure white and a great variety equally pleasing shades.....

Double Large-flowering Hybrids.

1234 These grow readily from seed and the young plants will bloom the first year. It is however to be observed that there will only be a certain percentage of doubles, some semi-doubles and a number of singles, but altogether a pleasant combination of flowers which will bloom when other flowers are scarce.....

PYRETHRUM ULIGINOSUM.

CHRYSANTHEMUM ULIGINOSUM.

1235 This is one of the grandest hardy herbaceous perennials and it blooms in the fall—August, through September and into October—at a time when such flowers are very welcome both in private and commercial gardens. It is not only one of the most profuse and showy of all plants when in bloom, but the individual blossoms are large (some 2½ to 3½ inches across) full, pure white with yellow disc, and they last well as cut flowers. The flowers should be cut for use soon after they open, as the centre darkens with age. It is of the easiest possible cultivation, all it needs is rich soil. Pkt., 10c.; 3 for 25c.

HARDY PRIMROSES.

Beautiful early spring flowers, fine for borders, rockwork, etc.; the flowers are borne in umbels on stalks 4 to 6 inches long.

1236 *Primula Vulgaris*.—The old-fashioned common yellow Primrose.....

1237 — *Japonica*.—(Japanese Primrose).—One of the most beautiful hardy perennials in cultivation. Flowers crimson, maroon, lilac, rosy-pink or white. Seed is slow to germinate.....

1238 — *Cortusoides*.—(Siberian Primrose).—Beautiful rose color.....

1239 — *Cashmerianum*.—A handsome variety with flowers of a light purple, with a yellow eye. Should have protection in winter.....

MANITOWOC, WIS.—Your collection of Poppies is superb, the admiration of the town. A. LANDRETH.

BURLINGAME, KAS., Oct. 30, '99.—The flowers were simply the best in the city and admired by all lovers of the beautiful. F. M. STEVES.

PRIMULA OBCONICA.

244 This is undoubtedly one of the most useful flowering plants grown; if sown early in spring the seedlings will begin to bloom in May or June and continue to flower throughout the whole year. The flowers are of a soft lilac shade and very charming. It is one of the most useful Primulas for pot culture, and also succeeds well in the open border during the summer months. Per packet, 10c.

CHINESE PRIMROSES.

(PRIMULA CHINENSIS.)

Charming, profuse blooming plants, indispensable or winter and spring decoration in the house. Seed should be sown in February or March in a light, sandy soil, but slightly covered and kept moist. Transplant as soon as the second leaves appear, and continue shifting the plants as they grow. Our seed is from the best European collections, and is in quality second to none.

245	P. Chinensis White.....	25	
246	— Bright Red.....	25	
247	— Brilliant Crimson.....	25	
248	— New Blue.—A very charming color.....	25	
249	— Vaughan's International Collection.—Contains the choicest colors of German, English, French and American Primroses and are sure to please.....	25	
250	Double White.....	50 1251 — Double red.....	50
252	Double Mixed.....	50	50



PRIMULA OBCONICA.

flowers are extremely large, averaging three inches across and very double; one of the finest hardy annuals and valuable for bouquets. Finest mixed..... 5
1280 — New Double Blood Red.—Very distinct and charming color..... 5

Hardy Scabiosa.—(Scabiosa Caucasia.)

1281 S. Caucasia.—This is one of the handsomest hardy perennials in cultivation. The flowers are of a peculiar soft lilac-blue shade and last a long time out of water, which fact renders them most valuable cut flowers. It attains a height of 2 to 3 feet and thrives in any common soil..... 10

RHODANTHE.

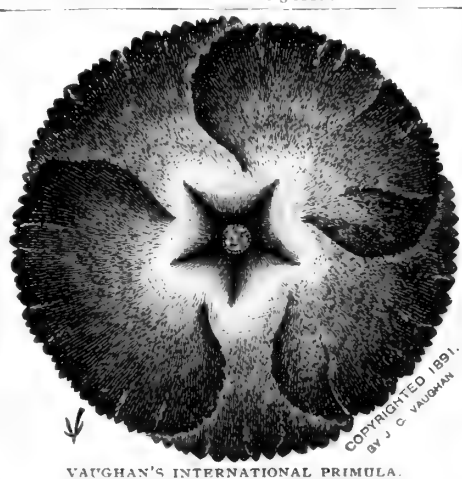
Well known everlasting flowers, valuable for white bouquets, but equally desirable as a bedding plant and for pot culture. 1 foot. H. H. A.

1253 S. Atrosanguinea.—Flowers purplish-crimson; very fine.....	10
1254 — Maculata.—Rosy crimson, yellow center.....	10
1255 — Alba.—Silvery white.....	10
1256 — Double.—Bright rose.....	10

RICINUS.

(CASTOR OIL BEAN.)

Stately strong-growing plants, with very ornamental foliage, particularly well adapted as center plants of groups of Cannas, Japanese Maize, Caladiums, Dahlias, etc. Height, 4 to 15 feet. H. H. A.
1257 R. Borboniensis Arboreus.—Immense green foliage. Height, 15 feet..... 5
1258 — Africanus.—Very large, light green leaves. Height, 10 feet..... 5
1259 — Cœrulescens.—Bluish green. 7 feet..... 5
1260 — Sanguineus.—A distinct variety with beautiful brownish red foliage and bright seed-pods; very effective. Height, 6 feet..... 5
1261 — Giganteus.—Immense foliage. 15 feet. 5
1262 — Gibsoni.—Dark purple stems and leaves; very ornamental. Height, 5 feet..... 5
1263 — Cambodgensis.—This new sort grows from 6 to 8 feet high, with large, palm-like leaves of the darkest bronzy maroon; stalk and stem nearly black; very effective..... 10
1264 — Mixture.—Many sorts..... 5
1265 RUDBECKIA, *Newmani*.—One of the best of our hardy border plants, producing its showy golden-yellow and black flowers in great profusion during the autumn. The flowers furnish splendid material for bouquets..... 10



VAUGHAN'S INTERNATIONAL PRIMULA.

COPYRIGHTED 1891.
BY J. C. VAUGHAN

SALPIGLOSSIS.

A class of highly ornamental autumn flowering plants with beautiful veined and tinted funnel-shaped flowers, rendering them very effective in beds and borders. A very choice annual. 1½ ft. H. H. A.
1266 S. Grandiflora.—Fine mixture of new large-flowering varieties..... 5
1267 — Collection of six separate colors of the large-flowering varieties..... 20

SALVIA.

(FLOWERING SAGE.)

Valuable bedding plants with long spikes of flowers of most striking colors. H. H. A.
1268 S. Patens.—The purest and brightest blue of all blue flowers. Height, 2 feet..... 25
1269 — Coccinea.—Deep crimson. 8 inches..... 5
1270 — Splendens.—Brilliant scarlet. 3 feet. 5
1271 — Argentea.—Silvery white foliage..... 10
1272 — Nutans.—A hardy perennial, very floriferous, the flowers are bluish purple, in racemes terminating the long branched spikes; very showy. Height, 3 feet..... 10
1273 SANVITALIA, *Procumbens fl. pl.*—Dwarf trailing plants with very double bright golden-yellow flowers, suitable for rock work. Height, 6 in. H. A..... 5



RICINUS CAMBODGENSIS.

Salvia ENGINEER CLAVENAD.

1274 A splendid new sort, blooming about two months before the old variety and lasting until late in the fall. The plants are dwarfer and more compact in habit while the numerous flowers are of the brightest dazzling scarlet. A novelty we can recommend. Pkt., 10c.

1275 SAPONARIA, *Calabrica* (BOUNCING BET.)—Handsome dwarf-growing plants with pretty star-shaped deep rose flowers; excellent for massing and edging. 6 in. H. A..... 5

SCABIOSA.

(MOURNING BRIDE.)

Very useful and ornamental plants with rich and beautifully colored flowers; equally effective for beds or borders; excellent for cutting. H. A.

1276 S. Major Fl. Pl.—Tall varieties, fine mixture. 5
1277 — Candidissima.—Double white flowers, useful for bouquets. 1 foot..... 10
1278 — Nana Fl. Pl.—Dwarf flowers extremely double, valuable for bouquets. Height, 1 foot. Many colors mixed..... 5
1279 — NEW LARGE-FLOWERING.—The

SCHIZANTHUS.

(BUTTERFLY FLOWER.)

1282 S. Papilionaceus Pyramidalis.—In this charming variety we have one of the finest annuals in cultivation. The flowers are as handsome as some of the orchids, and produce continually..... 5

SEDUM.—(STONE CROP.)

1283 S. Cœruleum.—Blue. A dwarf little plant growing freely on rockwork, vases, old walls, etc. Height, 3 in. H. A..... 5

SENSITIVE PLANT.—(MIMOSA)

1284 M. Pudica.—A very interesting plant with fern-like foliage, which is so sensitive that the leaves close up immediately when touched or shaken. H. A..... 5

SILENE.—(CATCHFLY.)

Beautiful spring bedding plants of dwarf growth, and covered with bright colored flowers. 1 foot. H. A.
1285 S. Ameria, Mixed.—Red, white and rose..... 5
1286 — Pendula Compacta.—Dwarf and compact; flowers bright pink..... 5
1287 — Alba.—White, like preceding..... 5
1288 — — Fl. Pl.—Double, rosy pink, very effective..... 5

SMILAX.—(MYRSIPHYLUM.)

1289 M. Perennial tuberous-rooted climber with dark glossy foliage and small white flowers; one of the most desirable greenhouse climbers..... 10

SOLANUM.

A shrub with fine foliage, but especially admired for its small pepper-shaped scarlet fruit.

1290 S. Capsicastrum.—(Jerusalem Cherry.)..... 5
1291 — Hendersoni.—Orange-scarlet berries, excellent ornamental pot plant..... 10
1292 — Weatherill's Hybrids.—Very choice. 5

SPRAGUÆA UMBELLATA.

1293 An old hardy annual not known in this country. The plants form a compact mass of dark bronzy leaves, throwing up flower spikes eight to ten inches high bearing curious wool-like crimson flowers. The seed can be sown in the open ground..... 10

STEVIA.

Very pretty perennials, which furnish excellent material for bouquets. They grow about 18 inches high and bloom from seed the first year.

1294 S. Serrata.—Flowers white, star-shaped, leaves fragrant. 2 feet..... 10
1295 — Purpurea.—Flowers pinkish red, very useful for bouquets. 18 inches..... 5

SWEET SULTAN.

(CENTAUREA MOSCHATA.)

Sweet scented, profuse flowering, showy plants of easy culture, and very effective in shrubbery. H. A.
1296 S. Mixed.—Blue, purple and white..... 5

STOCKS.

GERMAN TEN WEEKS.—(GILLYFLOWER.)

These are among the best and most popular of the garden favorites. In brilliancy of color and general effect they are unsurpassed. They are equally fine for bedding, borders, massing or for pot culture. The Ten Weeks Stocks will bloom about 10 or 12 weeks after being sown. For early flowering sow in the house in February or March, and plant in the open ground in May, when danger of frost is over. Our seed is saved from pot-grown plants, and is sure to give about 80 per cent. of double flowers, 9 to 18 inches high. H. H. A.

Dwarf German Ten Weeks Stocks.

1300 Pure White..... 10	1303 Crimson..... 10
1301 Brilliant Rose..... 10	1304 Purple..... 10
1302 Light Blue..... 10	1305 Canary Yellow..... 10
1306 Large-Flowering.—Choice mixed..... 10	
1307 Fine Mixed..... 5	
1308 Imported Collection of 12 distinct colors..... 60	
1309 Imported Collection of 6 distinct colors..... 30	
1310 Wallflower-leaved.—Choice mixed..... 10	

The Wallflower-leaved Stocks have quite distinct dark glossy foliage.

Forcing Stocks, "Snowflake."

1311 This is unquestionably a very valuable acquisition, it being the earliest flowering white Ten Weeks Stock in cultivation, resembling in habit the Dwarf Pyramidal race. It produces a vigorous main spike of extremely large and double snow-white flowers, which very effectively contrast with the glossy, dark-green leaves. It is good for forcing, furnishes white flowers at a time when they are scarce. Pkt., 10c.

Red Victoria Stock.

1312 Each plant forms in itself a natural grown bouquet, of a beautiful pyramidal shape, the lateral branches being symmetrically arranged around the main stem, which is slightly raised in the center. The beauty and effectiveness of this charming variety is increased by the brilliant color of the double, dark blood-red flowers with which the plant is crowned. Per pkt., 15c.

New Stock, White Perfection.

1313 This splendid variety which also goes by the name of "Cut and Come Again," and Princess Alice, grows about 18 inches high, is of a very branching habit, and almost a perpetual bloomer. If sown early it will begin blooming by the middle of June and will continue until November, when all the other Stocks are through flowering. The flowers are of the purest white, very large, of perfect form, and all borne on a stem about three inches long, which latter feature renders them valuable for bouquets, etc., and the flowers are replaced as they are cut. Packet, 10c.

Large Flowering

Dwarf Pyramidal Bouquet.

This variety has compact flower spikes, and throws out many side shoots.

1314 White..... 15	1317 Light Blue.. 15
1315 Rose..... 15	1318 Dark Blue.. 15
1316 Crimson..... 15	1319 Mixed..... 10

New Giant Perfection.

This sort produces plants 2½ feet high, with long flower spikes of extra double handsome flowers, and is extremely effective in beds and borders.

1320 Choicest Mixed..... 10
1321 Collection of 6 distinct colors..... 50

Intermediate or Autumnal.

These are prized on account of their flowering late in Autumn or early in spring. The seeds should be sown in July.

1322 Finest Mixed..... 10
1323 Collection of 6 distinct colors..... 40

Emperor, or Brompton.

These make very bushy and branching plants, with an abundance of flowers. Sow in July or August. Will last several years when protected.

1324 Many Colors.—In finest Mixture... 10

TOBACCO INSECTICIDE SOAP.

It is absolutely safe to handle and will not injure the tenderest growth of plants. It is used by dissolving in hot water at the rate of one ounce to two quarts of water. With this water the plants are sprinkled, syringed or sponged, and one or two applications will exterminate any kind of insect. It is sure death to green or black fly (aphis), scale, mealy bug, red spider, etc. If used once or twice a month on plants they will never be troubled with insects. Sold only in seven-ounce cans at 30c. each, by mail, postpaid.



SNOWFLAKE STOCKS.

SWEET WILLIAM.

(DIANTHUS BARBATUS.)

A favorite of the old-fashioned garden; flowers richly colored and produced in large, brilliant heads, which are very effective in beds or planted among shrubbery. H. P.

1328 Sweet William, Single.—Many colors mixed..... 10

1329 — Auricula Flowered, Mixed.—A beautiful mixture of "eyed" single varieties..... 10

1330 — Double.—Many colors, choice mixed..... 10

1331 — Albus Plenus.—Double white..... 10

1332 — Atrosanguineus pl.—Double blood-red, 10

TAGETES.

A dwarf compact, bushy plant of globular shape, with beautiful fern-like leaves, densely covered with flowers; valuable bedding and border plants. H. H. A.

1334 T. Signata Pumila.—Yellow, brown stripe..... 5

THUNBERGIA.

Beautiful climbers for green houses or some sunny spot in the garden. They are very profuse bloomers and have handsome foliage and flowers. 4 ft. H. H. P.

1335 T. Alata.—Buff, dark eye..... 5
1336 — Alata Alba.—White, dark eye..... 5
1337 — Aurantiaca.—Orange, dark eye..... 5
1338 — Bakeri. Pure white..... 5
1339 — Mixed.—All colors..... 5

TORENIA.

Most beautiful plant of trailing habit, excellent for house culture, hanging baskets and open ground. They produce flowers in great profusion, and are worthy of general cultivation. 8 in. T. A.

1340 T. Fournieri.—Large sky-blue flowers with three indigo-blue spots and a bright yellow throat; is an exceedingly free bloomer..... 10
1341 — Bailloni.—Deep yellow and maroon..... 10

TROPEOLUM LOBBIANUM.

The Lobbianum varieties constitute without doubt, some of the finest of our annual climbers; they are somewhat delicate, but extraordinary free-blooming; desirable for house culture. Should not be planted in too rich soil.

1343 Spitfire.—Bright Scarlet..... 10
1344 Giant of Battle.—Sulphur..... 10
1347 Lily Smith.—Scarlet..... 10
1348 King of the Blacks..... 10
1349 Napoleon III.—Golden..... 10
1350 Cardinale.—Dark Scarlet..... 10
1351 Lucifer.—Bright Scarlet..... 10
1352 Many Colors.—Fine Mixed..... 5
1353 Asa Gray.—This new variety is the lightest color yet obtained in that class, and is the softest sulphur-yellow, a very delicate and new shade..... 10

A FEW NEW AND RARE FLOWERS.

1356 **CLEOME Pungens, or Giant Spider Plant.**—A rare annual, grows 4 to 5 inches high and a continuous bloomer unaffected by the weather. The flowers are all pink and quite pretty, the seed pods are curious. It is one of the best honey producing plants we have. Pkt., 5c.; oz., 35c.

1357 **MOLUCELLA Lavis, or Shell Flower.**—Another very little known plant which grows two to three feet high and throws up a central flower stalk with numerous side-branches all completely covered with its curious flowers, which are green and delicately veined, its large calyx resembling the form of a shell; of very easy culture. Per pkt., 5c.

1358 **ANCHUSA Capensis.**—A hardy annual which might be called a Giant Forget-me-not owing to its resemblance of that lovely flower. It grows about 2 feet high and throws up numerous flower stalks bearing a profusion of the most lovely flowers which are a beautiful blue with white center. Valuable for bouquets; blooms all summer. Pkt., 10c.

1359 **AMBROSIA Mexicana.**—Another hardy annual but little known. The foliage which is borne on long spiral stems is exceedingly fragrant. A valuable plant for bouquets and of easy culture. Pkt., 10c.

1360 **EUPHORBIA Heterophylla or Mexican Fire Plant.**—The plants grow two to three feet high, in the shape of a bush. The leaves are at first entirely green and form at the end of the branches into large whorls and bracts which turn red in mid-summer. As these colored bracts almost cover the plant, the effect is very striking. The seed should be sown in the house and the seedlings planted out by the end of May. The plants should be grown in a warm situation, fully exposed to the sun, which hastens the coloring. Pkt., 10c.



THE SNOWBALL SCABIOSA.

1209 The brilliant color and exquisite form of the flowers have brought the much neglected Scabiosas into conspicuous prominence of late, deservedly so, too, as there are few plants which combine beauty and usefulness in so great a degree as these. The flowers of the Snowball are large, measuring fully 2 inches in diameter, of purest snow-white, very double, much more so than the old white variety, forming almost a complete globe, scarcely equaled in any other flower. The stems are very stiff and strong and the foliage a luxuriant green. If plants are potted in the fall they will furnish pure white flowers until Christmas. Add to the desirable qualities named, the fact that the plant comes strictly true from seed and it needs no further recommendation as a plant for cut flowers. Our illustration is from a photograph representing a flower of natural size. Pkt., 15c.; 2 for 25c.

• VERBENAS. •

Verbenas are easily grown from seed. If sown early in spring they will flower quite early in the season, and continue until destroyed by frost. Owing to their dwarf habit of growth and brilliancy of color, they are indispensable for bedding and edging, and furnish many flowers for cutting. The seed we are offering has been saved from one of the finest collections. H. H. P.

365	V. Candidissima.—White.....	10
366	—Defiance.—Scarlet.....	10
367	—Italian Striped..... 10 1368 — Purple.....	5
369	—Dark Blue with white eye.....	10
370	—Purple Mantle.—New, rich deep velvety purple	
371	with white eye.....	15
371	—New Yellow Leaved.—A very interesting	
372	variety with golden-yellow foliage, which forms a striking con-	
372	trast to the deep crimson flowers.....	15
372	—Extra Choice Mixed.....	10
373	—Fine Mixed.....	5

MAMMOTH VERBENAS.

374 This distinct and superb class of Verbenas is a remarkable improvement on the older varieties. It produces flowers of an enormous size, the florets being fully 1 inch in diameter, with clearly defined margins and white eyes. Our seed is saved from the finest flowers and will produce best results. Pkt., 15c.

NEW DWARF VERBENAS.

This new strain of Verbena is of dwarf and compact habit, forming neat globular pyramids only about 6 inches high, producing its flower stalks almost in candelabra form, which renders them extremely well adapted for carpet bedding and pot culture; they are a decided improvement on the older varieties with trailing habit. 1375 White; 1376 Scarlet; 1377 Many colors Mixed, each per pkt., 10c.

378 **Verbena venosa.**—Producing an abundance of lac flowers; well adapted for bedding..... 5

379 **Lemon Verbena.**—(Aloysia citriodora.)—Well known sort, much liked on account of its sweet scented foliage..... 10

380 **WALLFLOWER.**—Single mixed..... 5

381 — Double Branching Sorts.—Extra mixed..... 10

WATER LILIES.

These can be easily grown from seed and will give quite satisfactory results.

382 **Nymphaea alba.**—Our native white Water Lily..... 15

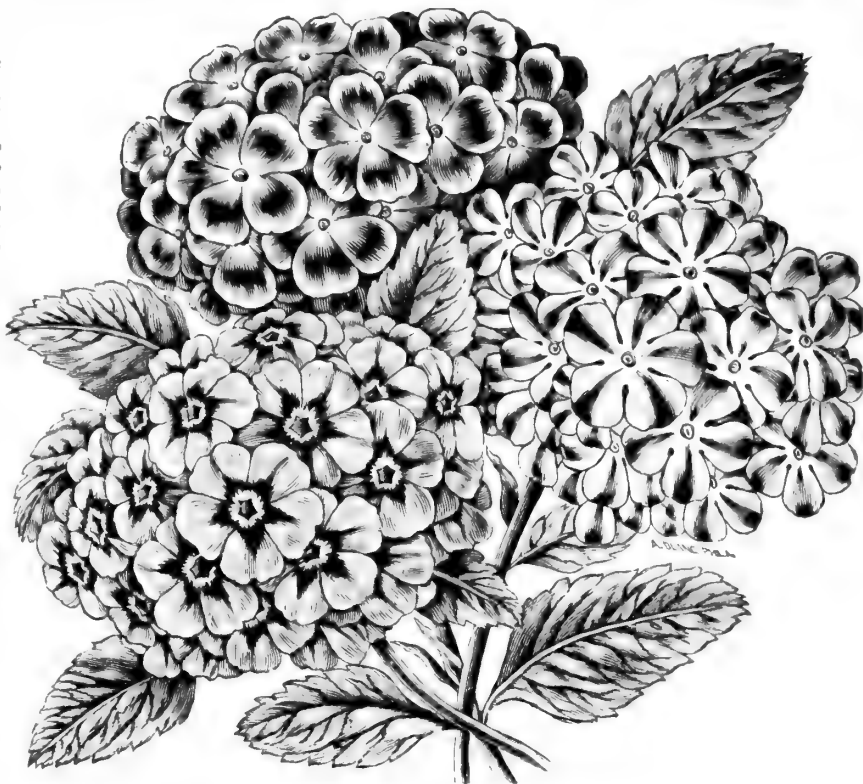
383 — **Zanzibarensis.** (The Royal Purple Water Lily.)

—The finest of all blue Water Lilies..... 25

384 — **Lotus.** (Egyptian Lotus.)—Large white flowers suffused with red..... 25

385 **XERANTHEMUM Plenissimum.**—Double white..... 5

386 — **Rubrum.**—Double red..... 5



VERBENAS.

• ZINNIA. •

Are undoubtedly among the most showy and ornamental of flowers for either beds or borders, and are equally desirable for bouquets. H. H. A.

1390 **Z. Pure White.**—With handsome white flowers..... 5

1391 — **Dwarf Scarlet.**—Double fiery scarlet flowers..... 5

1392 — **Golden Yellow.**—Flowers large and of perfect shape, and of a clear golden-yellow..... 5

1393 — **Double Crimson.**—Flowers very double..... 5

1394 — **Double Large-Flowering.**—Mixture of many colors, finest strain in cultivation..... 5

1395 — **Mexicana Fl. Pl.**—A very pretty dwarf growing variety, golden yellow double flowers..... 5

1396 **Carnation Striped Zinnias.**—The flowers are of perfect form, beautifully imbricated, double and as finely striped as a Carnation. Packet, 10c.

GIANT MAMMOTH ZINNIAS.

1397 We offered this variety for the first time three years ago, and have found it a decided improvement on any strain of Zinnias heretofore offered. The plant is a vigorous grower, reaching a height of about three feet, and bearing its flowers in great profusion. The blossoms are extremely double and very brilliant in color, showing shades not before seen in any collection, while in size they surpass all Zinnias, often measuring five to six inches in diameter. It makes a grand display either as solitary plant on a lawn or in masses, on account of its stately growth and the brilliancy of its flowers. Packet, 10c.; 3 for 25c.

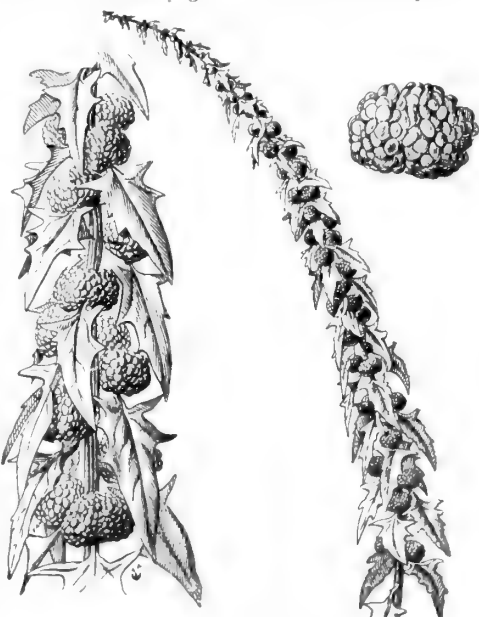
NEW DOUBLE LILIPUT ZINNIAS.

1398 These make dwarf, compact bushes covered with flowers of refined form, smaller than those of the above Zinnias, in a wide range of colors. The flowers are borne on long and stiff stems and are valuable for bouquets. They are produced in great abundance until late in fall. Packet, 10c.; 3 for 20c.

STRAWBERRY SPINACH.

(BLITUM VIRGATUM.)

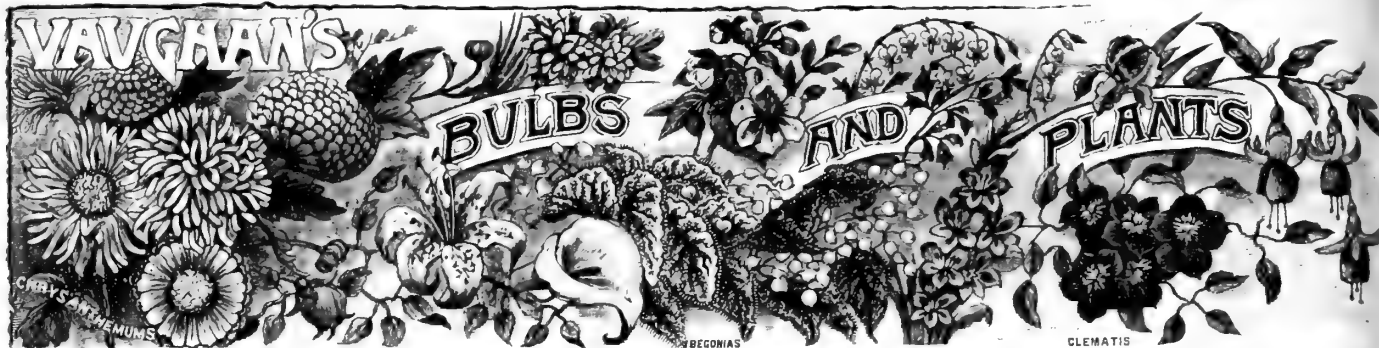
1399 One of the most effective annuals. Height, about 2 feet. It grows astem about 5 inches high, which throws out numerous very slender branches from 6 to 18 inches long. These are covered throughout the entire summer with an abundance of coral red berries, setting closely to the branches, so resembling strawberries that they name the plant. Both names are suggestive, yet neither foliage nor berries are edible. It is a curious, interesting plant, very effective in beds of flowering or of foliage plants, the red berries contrasting strikingly with the foliage. Our illustration, which we consider a very good one, represents a part of a branch of natural size, adjoining it is shown the graceful shape of a branch, and the profusion of its berries, reduced to one-fifth natural size, while in the upper corner is shown a berry of natural size. Sow the seed in April or May, where the plant is expected to remain, and, when up, thin to one plant to every 8 inches. A great curiosity. Per pkt., 10c.; 3 for 25c.



STRAWBERRY SPINACH.

DOUBLE ZINNIAS.





WHILE this department might properly be divided into Dormant Plants, Bulbs and Roots and growing Greenhouse Plants, yet since both classes often occur on the same page and in the same varieties, and since our establishment at Western Springs now contains our complete assortment of all varieties and classes, so arranged as to be packed together or separate as best suits their condition, we offer all in one large department on the following pages, alphabetically arranged. The cultivation of flowers from BULBS and DORMANT ROOTS commends itself to the amateur as being far simpler than culture from seed, since they require far less care in starting, grow rapidly, and soon make a good display; they FLOWER THE FIRST SUMMER, and bloom and MULTIPLY SEASON AFTER SEASON. Prices here given INCLUDE PREPAYMENT BY MAIL, unless otherwise noted; we urge all customers, however, to order Bulbs and Plants by Express, as we can in this way send much stronger Plants and more safely packed. Use Special Sheet for Plant Orders, and save us valuable time in our busy season.

AMARYLLIS.

Handsome clusters of lily-shaped flowers—white, rose, or vivid crimson; vigorous of growth, free-blooming, often flowering twice in the season. We offer the CREAM OF THE LIST, at reasonable prices.

ATAMASCO.—Pretty open trumpet-like flowers, changing in color from rosy pink to white as they expand. Rose or White. Each, 15c.; doz., \$1.00.

CRINUM ORNATUM.—Very large bulb, which bears upon a central flower-stalk a cluster of six to twelve large fragrant pink and white blossoms. One of the most showy and satisfactory Amaryllis; can easily be made to bloom twice a year—fine, strong bulbs. Each, \$1.25.

DEFIANCE.—A new, very profuse-flowering variety bearing five to seven carmine flowers, striped and flaked with white; remarkably strong grower, blooming repeatedly during the season. Extra fine—strong bulbs. Each, \$1.00.

EQUESTRE.—Broad petals of a soft salmon scarlet color, throat snow-white; a very handsome sort. Each, \$1.00.

FORMOSSISSIMA (JACOBIN LILY).—Flowers of a deep velvety crimson color, handsomely formed and very striking. A favorite Amaryllis. Fine summer blooming bulb. Each, 20c.

JOHNSONII.—One of the best sorts, strong growing and free-blooming; flowers large, crimson, striped with white. Fine strong bulbs. This is a most popular variety. Each, 75c.

TREATEA (FAIRY LILY OF THE SOUTH).—Fragrant, pure white flowers; very pretty, of easy culture. Each, 10c.; doz., \$1.00.

VALLOTTA PURPUREA.—A beautiful pot plant, requiring similar treatment to the Gladiolus. It sends up a flower stem about eighteen inches in height, bearing from four to eight handsome scarlet flowers. Very easy of cultivation. Each, 50c.



SPOTTED LEAF CALLA.

SPIDER-LILY.

(*PANCRATIUM CARIBBÆUM*).—This pretty Amaryllis-like flower is of easy culture, freely producing its clusters of large white, delightfully fragrant flowers. Plant in good rich soil in pots, or in summer in the open ground when through blooming pot them and withhold water until the next season. Each, 20c.; six for \$1.00.

Vittata (RED GROUND).—Flower crimson, with white markings. Each, 60c.

Vittata (WHITE GROUND).—White, with stripes and markings of various shades. A beautiful variety. Each, 75c.

ANTHERICUM LILIASTRUM MAJOR (ST. BRUNO'S LILY).—Very large pure white flowers, borne in strong spike-like a Gladiolus; very free blooming, and will succeed in any ordinary soil. One of the finest hardy perennials in cultivation. Each, 30c.; doz., \$3.00.

ISMENE CALATHINUM.—Amaryllis-like bulbs from the South; flowers are about three inches long, pure white and remarkably fragrant, borne in clusters expanding in succession, one to two weeks apart, which gives them a long flowering season. Fine for cut flower purposes. Each, 30c.; doz., \$2.50.

SPOTTED LEAF CALLA.

(*RICHARDIA ALBA MACULATA*).

This Calla resembles the White Calla, but is of a somewhat smaller habit. The leaves are of a glossy deep green with numerous white spots, making it very ornamental at all times, even when not in bloom. It makes a splendid plant for borders or beds. We have the largest stock in the country. Price, first size, dry roots, each, 15c.; doz., \$1.50. Extra large, each, 25c.; doz., \$2.50.

CALLA ETHIOPIA.—The old favorite pure white Calla. Let the plants rest during the summer by turning the pots on their sides. Repot in September in fresh soil. Thus treated the plants will bloom two or three times each year. First size, each, 25c.; doz., \$2.50. One root each of the Callas, first size, for 35c.

CYCLAMEN.

This well known plant is only adapted for house culture in our climate, but for winter flowering it has but few superiors. Plant in rich light soil, and water sparingly until it begins vigorous growth, after which it may be treated like other house plants. The pretty variegated foliage and bright flowers, together with its long blooming season, renders it a favorite wherever grown. Each, 25c.

DIELYTRA SPECTABILIS.

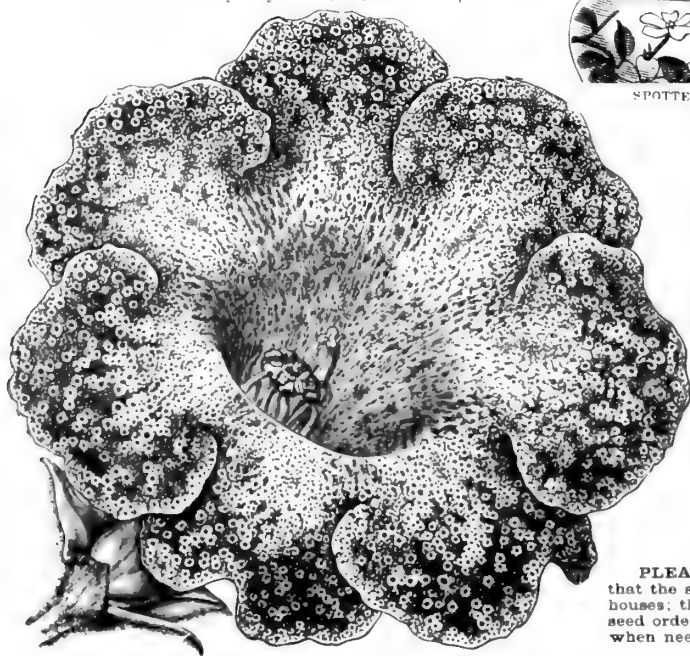
(BLEEDING HEART).

These pretty spring bloomers, with their graceful drooping sprays of heart-shaped pink and white flowers, are very ornamental, and bloom freely in early spring. The plants being hardy, increase in size and bloom from year to year, and should have a place in every garden. Each, 15c.; doz., \$1.50.

GLOXINIAS.

One of the choicest bulbs for pot culture; flowers trumpet shaped, with the most beautiful tints and markings, shaded and spotted with violet, rose, blue or crimson. Plant in a light soil and keep in a warm place; dry carefully after blooming, and store in moss in a dry place. Fine imported bulbs. Each, 25c.; doz., \$2.50.

PLEASE NOTE.—It may occasionally happen, when seeds and plants are ordered together, that the seeds will be sent immediately and plants a day or two later direct from our green houses; therefore please do not be impatient if such be the case, preventing as it does delay on seed orders, and securing shipment of plants in best condition. Write for more order blanks when needed; we mail them free.



GLOXINIA FLOWER.

CANNAS.

THE most tropical effect is produced by the handsome foliage in various shades of red, purple or bronze, and the large showy flower spikes of these fine lawn plants. They show to marked advantage when edged by a border of Caladiums, or three Castor Bean plants for centre, surrounded by Cannas, followed by Caladiums, makes a charming and effective combination. They are plants for everybody, being easy to grow, free from attacks of all insects, succeed in either wet or dry seasons, and will bloom continually from June until cut down by frost. The roots can be wintered in a frost proof cellar, like Gladiolus, or may be potted and will give flowers during a portion of the winter.

Cultural directions.—For best results, dig the soil at least two feet deep and spade in plenty of well rotted manure. In extreme dry weather supply water. Carry out these simple suggestions and you will be astonished at the fine growth, foliage and flowers.

Prices Include Prepayment, Unless Noted.

CROZY'S NEW GLADIOLUS-FLOWERED CANNAS.

We have tested these grand new varieties on our grounds at Western Springs for two seasons. The dwarf but tropical growth of the plants with their numerous shoots each crowned with large spikes of beautiful flowers, elicited the admiration of all our visitors. They have great additional value for pot or tub plants for conservatory decoration. At our greenhouses, (Dec. 25), Mad. Crozy and others are in splendid bloom. The following are the choicest of M. Crozy's productions.

Madame Crozy.—Truly magnificent specimen of the great strides made by M. Crozy in this class. Compact growth; numerous spikes of very large flowers; clear vermilion bordered with gold, petals very wide and broadly rounded; foliage green. Surpasses even Gladioli and all Cannas; 3 feet. Each, \$1.00.

HENRY de VILMORIN.—Green, erect leaves. Flowers large and of fine form; center of petals red, shading off to a yellow margin. A beautiful variety and very effective; 2½ feet. Each, 75c.

MAURICE RIVOIRE.—Remarkably vigorous grower. Magnificent leaves of great size, purplish bronze in color. Very large deep red flowers resembling those of a Gladiolus. This excellent variety is considered by M. Crozy, to be his greatest novelty; 3½ feet. Each, \$1.00.

PRESIDENT CARNOT.—Leaves erect, deep purplish bronze, flowers very large, cinnabar crimson faintly spotted darker. The magnificent foliage and beautiful flowers produce a pleasing contrast and most marked effect. A very elegant variety; 3½ feet. Each, 75c.

PRESIDENT CLEVELAND.—Of extremely dwarf growth, rarely exceeding 18 to 24 inches. Flower spikes very numerous, standing well above the foliage and supporting the very largest salmon tinted flowers we have yet seen. Each, 50c.

SOUVENIR de ASA GRAY.—Of vigorous and compact growth, similar to the above; flowers equally large but shorter stems; color, orange red; foliage very rich. Each, 50c.

Comte Horace de Choiseul.—Very large, purple cerise flowers; petals round and smooth. Each, 75c.

Duchess de Mortemart.—Large green foliage; flowers of great size and abundantly produced; color, golden yellow heavily spotted and striped carmine. Each, 75c.

President Hardy.—Leaves deep green; flowers very large and numerous, clear salmon, darker at center. Each, 75c.

PERFECTION.—Foliage green, flowers, golden yellow spotted deep red, quite distinct from many of this type; 3 feet. Each, 75c.

NEW SEEDLING CANNAS.

GROWN FROM CROZY'S SEED.

STAR OF 1891.

Of this Mr. Falconer says: "It is the grandest flowering Canna, that I have ever grown or ever seen. The habit of the plant is very dwarf, but with full fine foliage, and it has a persistent habit of throwing up fresh sprouts from the base. Every sprout produces a flower-spike, which in its turn becomes many-branched, each branch bearing from 12 to 17 blossoms, each blossom 4 to 5 inches wide, and each petal 1½ inches broad. The color of the flowers is glowing orange-scarlet, faintly banded with golden-yellow, and the plants, from tiny morsels to big specimens, are perpetually in bloom. Their brilliancy is unsurpassed, and as a house or green-house winter-blooming plant, it is going to cause a great sensation. It never ceases growing and blooming, and its blossoms under glass are even larger, brighter, and last longer than when out-doors. Each, 75c.

Childsii. (THE TIGER CANNA).—Of rather dwarf habit; foliage rank, and of a light green shade. Flowers large, clear yellow brilliantly spotted with crimson. More showy than Emile Leclaire which it somewhat resembles. Each, 50c.



CANNA CHILDSII.

GENERAL COLLECTION.

PRICE:—Purchaser's selection, prepaid, each, 20c.; doz., \$2.00, except where noted.

Our selection, named kinds, doz., \$1.50; not prepaid, 25 for \$2.50.

ADOLPH WIECK.—Rich crimson, shaded orange, free bloomer.

B. COUSANCAT.—Leaves green, flowers medium size, very abundant; brilliant red; 7 feet.

BRAZILIENSIS.—Large green leaves, red flowers, tall.

DISCOLOR.—Large bronze-red leaves; very large red flowers.

EHEMANNI.—Large oval dark green leaves, immense red carmine flowers on long stems; it is a strong grower attaining a height of 5 to 7 feet.

Emile Leclaire.—Golden-yellow, spotted crimson; orchid-like, foliage, pea-green. One of the best varieties. Each 25c.; doz., \$2.50.

ENFANT de CAHORS.—Leaves purple, large carmine flowers.

Flaccida.—(BUTTERFLY CANNA). Of dwarf growth, 2 to 3 feet, very large pure yellow flowers; light green foliage; blooms a month earlier than most Cannas. Each, 30c.; doz., \$2.50.

F. LAPEUTE.—Leaves purplish green; flowers large; carmine; 4 feet.

FLAMBOYANT.—Dark green foliage; flowers numerous, purplish scarlet; vigorous growth.

FRANCIS MOREL.—Large crimson flowers; deep green foliage.

INDICA.—Foliage, bright green; flowers, light yellow; an old standard sort.

J. SCHULTZ.—Of dwarf habit, erect bronzy red foliage. It is admitted by all florists to be the richest foliage Canna in cultivation; the coloring is perfectly uniform; flowers, medium size; color, orange-red. Each, 30c.

Noutoni.—Very large flowers of a brilliant velvety scarlet, produced freely in large spikes and side sprays; robust grower with remarkably handsome foliage; a brilliant variety. Each, 25c.; doz., \$2.50.

PREMICES de NICE.—Foliage green; flowers, golden yellow.

PRESIDENT FAIVRE.—Purplish red leaves, the very best of the red leaved kinds; flowers, medium size; bright red. Each, 30c.; doz., \$3.00.

PRESIDENT FERRY.—A variety much admired in Chicago parks. Large red leaves.

SPECIOSA.—An extremely handsome and showy sort with red foliage and spotted leaves; 3 feet.

WASHINGTON, Kans., May 18, '90. The order of 50 Chrysanthemums was very satisfactory. The plants were in splendid condition and a much choicer selection than I had expected. The ladies were much pleased with them. MRS. Wm. J. TOBEY.

BRADFORD, Ill. The seeds and plants ordered from you, came in good shape. The Chrysanthemums are very fine plants. MRS. E. SWARTHOUT.



"STAR of 91"

CLEMATIS.

The Most Beautiful Class of Flowering Climbers.

For covering large spaces quickly, the Clematis is unrivaled, and for beds and rock work they are equally valuable. By selection of the various kinds, they may be had continually in bloom for four months. They must have a sunny location and good culture; dig the ground very deep and make it rich.

EXTRA SIZED PLANTS FOR IMMEDIATE EFFECT.

We have many customers who prefer to pay for larger plants rather than wait for small ones to grow. We have such in most of the older kinds, and offer them below. They are sure to give satisfaction. Prices on these include prepayment.

MADAM BARON VIELLARD, called the Rose-flowered Jackmani. New; one of the strongest, most vigorous and free-blooming varieties of all Clematis. Will make a sensation when known; flowers from four to five inches in diameter, and of perfect form. Light rose with lilac shadings, a new color; winner of Gold Prize Medal at Paris when first exhibited. Cannot be praised too high. Blooming plants, each, \$1.50.

LA FRANCE.—A hybrid of Jackmani; wonderfully free of bloom, attracting great attention by its large erect flowers, 6 or 7 inches across, of the most intense deep violet blue. This variety, sold by us for the first time last year, surpassed our expectations; it is without doubt the finest of all the Jackmani type of Clematis. A magnificent variety. Blooming plants, \$1.50.

DAVIDIANA.—This new variety is a sturdy bush, not a climber, about three feet high, with very large leaves, growing in triples. It bears clusters of fifteen to twenty porcelain blue flowers similar to the Hyacinth in shape and size, and as fragrant as the Orange Blossom. It is a strong grower, branches freely and is quite hardy. Each, 35c.

These three grand sorts for \$3.00.

Belle of Woking.—Double silvery grey. Each, 75c.

Coccinea.—Bell-shaped flowers, bright coral red, blooms from June until frost. A rapid grower and very desirable. Each, 25c.

Crispa.—Bell-shaped, fragrant, lavender flowers with white centers. Making a fine contrast with other varieties. Blooms from June until frost. Each, 25c.

Duchess of Edinburg.—Finest double pure white; large flowering, deliciously scented; a remarkably free and continuous bloomer. Each, 75c.

Flammula.—Vigorous sort with small white, sweet scented flowers and ornamental foliage; the flower-like winged seeds are also very pretty. Each, 25c.

Fortunei.—Double, rosette-formed, white; sweet scented. Each, 75c.

Gem.—Deep lavender blue, flowers from June to October. Each, 75c.

Gypsy Queen.—Bright, dark velvety purple; very attractive. Jackmani type. Each, 85c.

Jackmani.—This variety, with its strong, healthy growth, hardy nature and its rich, deep velvety purple flowers, is the most satisfactory of its class. It blooms with astonishing profusion from July to November on shoots of the present season, and should be pruned early in the spring. Strong plants, each, 60c.; doz., not prepaid, \$4.50; 25 for \$8.00; extra strong, by express, each, 75c.

Jackmani Alba.—This new white variety is identical with the preceding in growth, hardiness, time of flowering and freedom of bloom; one of the most valuable of recent introductions. Fine imported plants, each, 75c.

LADY BOVILL.—Greyish blue, cupped; blooms in masses, July to October. Ea., 75c.

LANGUINOSA CANDIDA.—Tinted greyish white, fine. July to October. Each, 75c.

PRINCE OF WALES.—Deep purple; free bloomer. Each, 75c.

STAR OF INDIA.—Reddish plum with red bars. Each, 75c.

VITICELLA.—Pretty, drooping, bluish purple flowers. Each, 25c.

AMPELOPSIS VEITCHII

(JAPAN OR BOSTON IVY.)

This is the finest climber we know for training over walls, as it clings firmly to the smoothest surface, covering it smoothly and densely with overlapping leaves which form a perfect mat of foliage. The color is a fresh deep green in summer, and takes on in the fall the brightest autumn colors. Leaves are heart-shaped, and are ranged one above another as evenly as tiles on a roof. It likes a rich soil, and makes a steady growth of about four feet per season; requires a slight protection in winter in our climate. Small plants, each, 15c.; doz., \$1.50; strong plants, ea, 30c.; doz., \$3.00; extra large, not prepaid, each, 50c.; doz., \$5.00.



TYPE OF NEW VARIETIES CLEMATIS LA FRANCE AND MAD. BARON VIELLARD. (ONE-HALF NATURAL SIZE.)

AMPELOPSIS ROYALI.—This is as yet quite scarce, being a comparatively new variety. It is identical with Veitchii as regards its climbing properties, but it is a larger and stronger plant. The leaves, even in summer are richly tinted crimson, and in autumn it is perfectly gorgeous in its flame-colored foliage. Each, 30c.; doz., \$1.00.

AMPELOPSIS QUINQUEFOLIA. (VIRGINIA CREEPER.) One of the finest hardy climbers, a luxuriant grower, with handsome foliage which takes on a bright crimson hue in the fall. Each, 25c.; doz., \$2.50.

AKEBIA QUINATA.

A strong climber, best for the South, flowers in clusters, brown in color and powerfully fragrant. Each, 15c.; large plants, by express, each, 35c.

APIOS TUBEROSA.

A valuable hardy tuberous-rooted climber resembling the Wistaria in vine and foliage. Its clusters of rich, deep purple flowers have as strong, delicious violet fragrance. They grow to a great height and bloom profusely. The bulbs are hardy and need not be taken up. Each, 10c.; doz., \$1.00.

ARISTOLOCHIA SIPHO.

(DUTCHMAN'S PIPE.)

A vigorous growing vine with large heart-shaped leaves and curious pipe-shaped flowers; one of the very best climbing vines known hardy and a rapid grower, best for porches, verandas and sides of dwellings. Each, 35c.

BIGNONIA RADICANS.

(TRUMPET CREEPER.)

Fine hardy climber, bearing large trumpet-shaped flowers, rapid grower, fine foliage. Each, 20c.

CINNAMON VINE.

(DIOSCOREA BATATAS.)

A lovely climber, taking its name from the peculiar fragrance of its delicate white flowers. The leaves are heart-shaped, bright glossy green; growth is very rapid, reaching about 8 feet in height; quite hardy. Roots, each, 15c.; 2 for 25c.

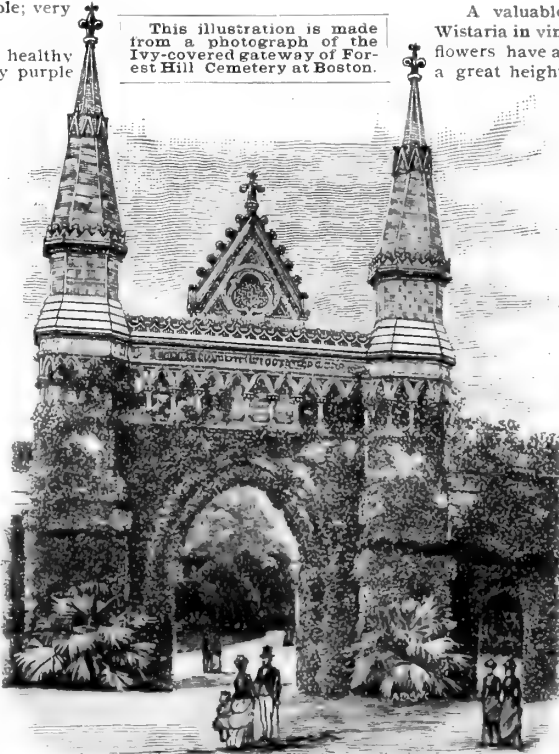
HONEYSUCKLES.

Famed the world all over for their hardiness, handsome flowers and their easy-adaptability to any situation.

Belgica, Chinese sweet-scented, cream color and rose; **Flava**, yellow; **Sempervirens**, coral red; **Halliana**, white. Each, postpaid, 15c.; doz., \$1.50.

MADEIRA VINE.

A rapid-growing, graceful vine, with smooth, waxy, dark green leaves, and dainty racemes of tiny fragrant white flowers, will grow in almost any situation; not hardy. 3 for 15c.; doz., 50c.



AMPELOPSIS VEITCHII.

CLIMBING PLANTS—CONTINUED.

MOON FLOWERS.

Most charming and popular blooming climbers. It is quite safe to say that in all the lists of summer vines none equal Moonflowers for rapid growth, quantity of flowers and showy effects. For covering walls or porches their beautiful moon-like flowers are seen to great advantage. Warm rich soil with a sunny exposure suits them.

IPOMŒA PANDURATA.

This white Moonflower differs from all others as it has a tuberous root resembling a Dahlia, which is perfectly hardy, living in the ground from year to year, increasing in size and strength all the time. The beautiful dark green foliage is so dense as to form a perfect screen, covering the vine completely from base to summit. The flowers are usually 4 inches in diameter, occasionally 5, and sometimes 6 inches. They are pure satiny white with purple throat and produced in the greatest profusion; open day and night from June until October. A strong plant will give more than 1000 beautiful flowers daily for months at a time, being well distributed over the plant, forming a grand display. The roots do not spread and sprout to become troublesome like some plants, and they penetrate the earth so deep that the vine is not seriously affected by drought or other unfavorable conditions. Each, 20c.; 3 for 55c.; doz., \$2.00

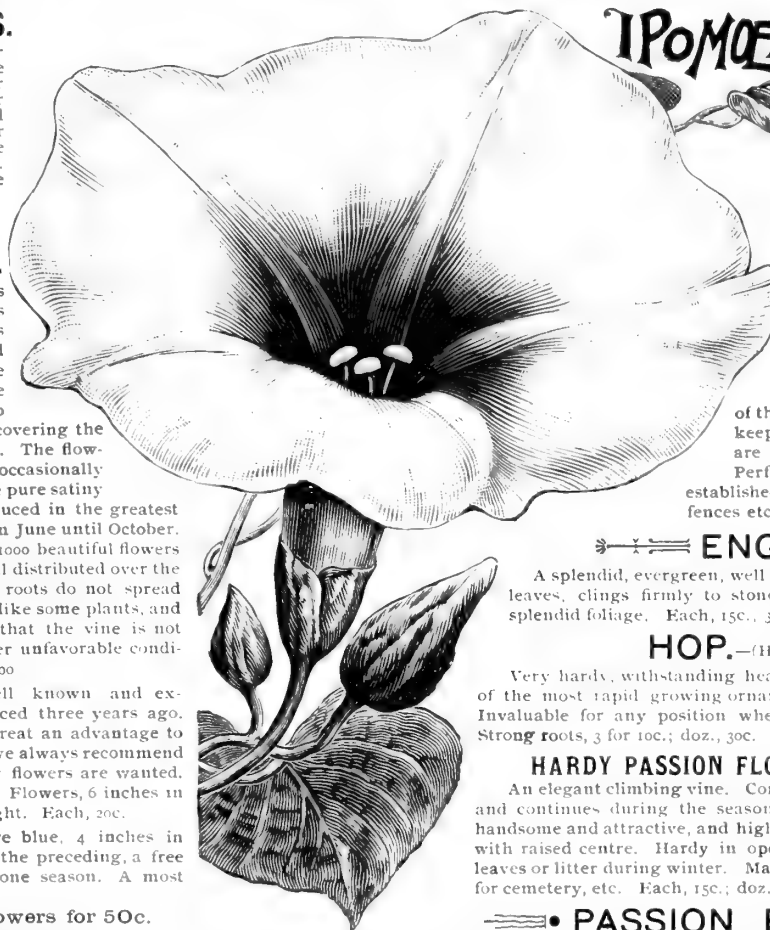
NOCTIFLORA.—The well known and extensively advertised variety introduced three years ago. Our customers have found it so great an advantage to secure plants already started, that we always recommend the latter in all cases where early flowers are wanted. Hundreds of thousands sold yearly. Flowers, 6 inches in diameter, pure white, opening at night. Each, 20c.

LEARI.—Flowers deep azure blue, 4 inches in diameter; a charming contrast to the preceding, a free bloomer. Grows about 25 feet in one season. A most attractive climber. Each, 25c.

One each of above Moonflowers for 50c.

WILD CUCUMBER.—(ECHINOCYSTIS LOBATA.)

This is the **quickest growing climber** in our list. Grows wild, self sown, in many parts of the West. It will grow thirty feet in one season, has dense, graceful foliage which is thickly dotted over with pretty white, fragrant flowers. These in turn are followed by an abundance of small, ornamental and prickly seed pods. For a trellis or pillar no annual vine is more chaste, and it will quickly cover an old tree or an unsightly building. The seeds being exceedingly hard should be soaked at least twenty four hours before planting. Once planted this vine seeds itself and comes up every year. Seed, per pkt., 10c.



IPOMŒA
PANDURATA.

DOUBLE MORNING GLORY.

(CALYSTEGIA PUBESCENS FL. PL.)

This is a hardy perennial climber, the roots living in the ground from year to year, and every spring send up long graceful vines which are densely clothed with foliage and literally covered with large, beautiful, double rose-colored flowers, lasting in bloom the whole summer. Our illustration conveys a very truthful idea of this really desirable vine. The flowers keep perfect several days before fading, and are constantly succeeded by new ones. Perfectly hardy in the coldest climate; once established will last forever. Elegant for arbors, fences etc. Each, 20c.; 3 for 55c.; doz., \$2.00.

ENGLISH IVY.

A splendid, evergreen, well known climber, with dark glossy green leaves, clings firmly to stone or brick walls covering them with splendid foliage. Each, 15c.; 3 for 40c.; doz., \$1.50.

HOP.—(HUMULUS LUPULUS.)

Very hardy, withstanding heat, drouth and insects remarkably; one of the most rapid growing ornamental climbers known; foliage dense. Invaluable for any position where a thick screen of foliage is needed. Strong roots, 3 for 10c.; doz., 30c.

HARDY PASSION FLOWER, Constance Elliott.

An elegant climbing vine. Commences to bloom when quite small, and continues during the season. The flowers are large, remarkably handsome and attractive, and highly perfumed. Color, pure ivory white, with raised centre. Hardy in open ground, if given a light covering of leaves or litter during winter. Makes a fine window plant and is valuable for cemetery, etc. Each, 15c.; doz., \$1.50.

PASSION FLOWER.

New Mammoth Purple.—This fine novelty is an improved form of the native Southern Passiflora. It is perfectly hardy, even at the North with a little covering. Very large flowers. Young plants; ready April. Each, 20c.; doz., \$2.

MANETTIA VINE.

SEE COLORED PLATE.

This is one of the most attractive and beautiful climbers in cultivation. Although not hardy we deem it of such value as to give it a place in our list of climbers. It can be grown either as a house plant or in the garden and is a most prolific bloomer. In the house if trained around a window it is almost continuously in bloom. To cover an arbor, trellis or wall in summer it has no equal with the exception of Clematis. The flowers are about two inches in length, about the size of a lead pencil, brilliant coral red, the end of the petals tipped golden yellow. Flowers last a long time. No plant is more easy to grow. It commences to bloom from a small cutting and continues in flower, attracting constant attention. Each, 20c.; 6 for \$1.00.

GENERAL NOTE

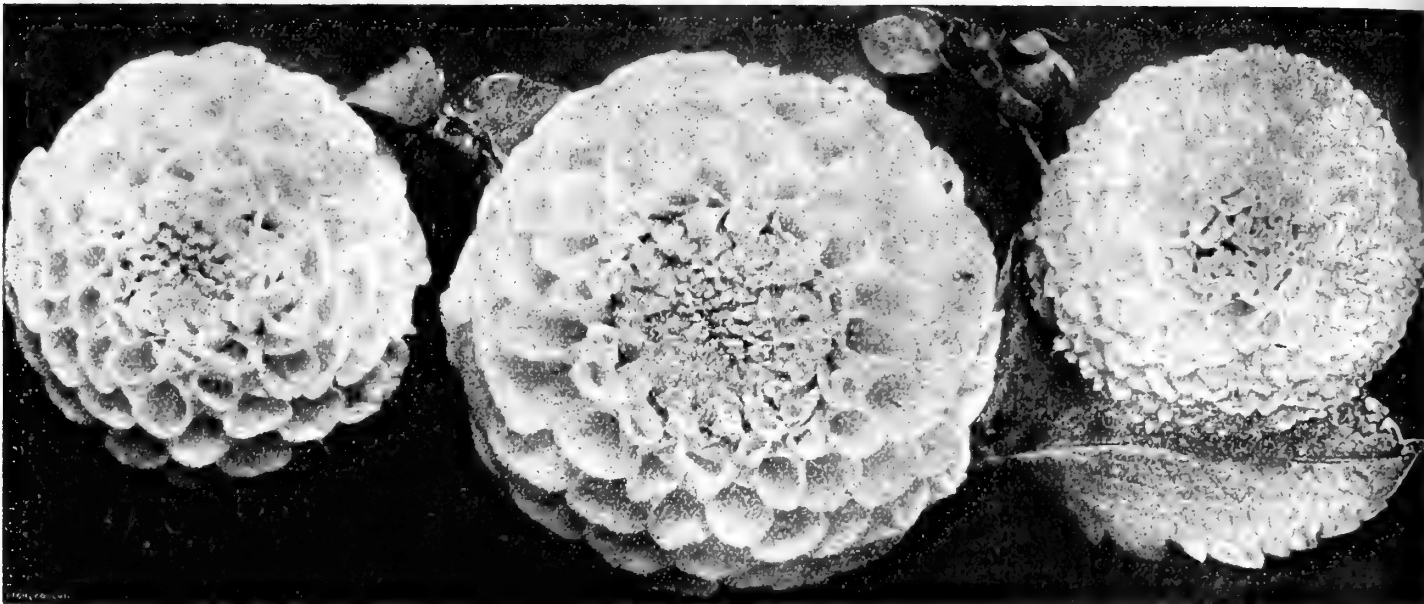
regarding tender plants and like stock. If part or all of your order is to be held by us please state it distinctly on the order sheet with date you want goods sent. If plants are received before the season is favorable for setting out plant in pots or boxes and keep in the house until the proper time for planting.



MANETTIA VINE



CALYSTEGIA PUBESCENS FL. PL.



SNOW.

GLOIRE DE LYON.

WHITE DOVE.

NOVELTY — • • COLLECTION.

Dahlias.

CURIOUS — • • COLLECTION.

Conspicua.—(English.) A remarkably showy single flower which arrests the attention of every beholder, being one of the most attractive varieties ever sent out. White, edged and shaded rose. 50c.

Mikado.—(English.) Rosy crimson; considered by the best critics to be the most showy and conspicuous of the Single Dahlias. A grand variety, perfect form, very large round petals. Each, 50c.

Sir Richard Wallace.—(English.) Rich shade of purple; an enormous flower, very double, and of perfect form, good grower and blooms early. Each, \$1.00.

Beauty of Brentwood.—(English.) NEW CACTUS DAHLIA. Double. Distinct purple shade, a color hitherto lacking among Cactus Dahlias. The "Dahlia of the Year." Each, 75c.

A. D. Livoni.—(American.) While not exactly new it is the most lovely form of any pink Dahlia. Has long stems, petals beautifully quilled, regular and double to the centre. An early and profuse bloomer. Each, 35c.; doz., \$3.50.

Snow Dwarf.—A capital sort of dwarf habit from Germany. Has long stems, very large pure white flower, smooth rounded petals, extra. Each, 50c.

Victory.—(German.) A first class, tall growing variety. Very large, double, bright scarlet flower. Each, 50c.

OUR THREE GRAND WHITES OF 1890.

Gloire de Lyon.—The largest and most perfect globe-shaped, pure white in cultivation. Stout upright growth, early and free-blooming. Petals are very large and so numerous one above the other as to become nearly a perfect ball. Height 3 feet. Each 75c.

White Dove.—Flowers are extra fine, double, pure white, petals beautifully toothed, stems very long. Height 3½ feet. The cut-flowers of this variety are more sought for by florists than any other. Each, 35c.

Snow.—A very fine variety of purest snowy white, double to the very centre; large, rather broad as compared with others, an early and free bloomer. Height 2½ feet. Each, 35c.

DRY ROOTS, now ready. **The three varieties, \$1.25.** Young Pot Plants, ready April 1st, each, 30c.

The three varieties for 75c.

THREE BEST BLOOMING BEDDERS.

Selected with a special view for massing being exceptionally free-flowering double kinds.

Triomphe de Solferino.—Crimson scarlet, flowers as large as any. Height 2 feet.

Margaret Brunt.—Pure white, better than the well-known dwarf Camellia Flora. 2½ to 3 ft.

Yellow Bird.—A very free blooming clear yellow. Height 4 feet.

These three will make a fine circular bed with "Yellow Bird" in the center, or a border with Triomphe de Solferino in front.

Price, **Pot Plants,** each, 20c.; 3 for 50c.; doz., \$1.50. 30 plants, **not prepaid,** for \$3.00; 60 plants, 20 of each, **not prepaid,** for \$5.50.

HOW TO GROW FINE FLOWERS.

A good deep mellow soil thoroughly enriched with well-rooted manure and an abundance of water upon the plants as well as at the roots during dry, hot weather, is the simple secret of success. Water overhead daily or oftener in dry weather, say the best authorities. The best amateur grower in this city uses a revolving lawn sprinkler in dry, hot weather. He sets this up several feet above the plants and allows the water to play upon them all night, removing it to a new place the following evening. Splendid flowers in the hottest, driest season are the result.

CHICAGO, Sept. 17 '90. Your Dahlias White Dove, King of Cactus and Gloire de Lyon are now magnificent. Far beyond your claims for them.
W. S. JORDAN.

Germania Nova.—A very handsome and odd variety, most striking and attractive shape, unlike any other Dahlia (see illustration.) Its well formed flowers are composed of a ball-like mass of petals more or less curled and twisted; color, bright cherry pink. Each, 50c.; doz., \$5.00.

John Thorpe.—A lovely and curious variety, early and free-blooming. Double, very large flower. Colors variable; a red ground blotched, striped and spotted white, sometimes pure white marbled with rose. Each, 30c.; doz., \$3.00.

Long Island.—A new and one of the most showy and distinct of Dahlias. The semi-double flowers which are very large are freely produced on long stems. Color, brilliant scarlet with large yellow centre. Each 30c.; doz., \$3.00.

Formosissima Picta.—Very striking and thoroughly distinct. Orange scarlet, the center of each petal banded with a darker shade. Each, 30c.; doz., \$3.00.

Bon Maza.—Maroon with crimson shadings, each petal heavily tipped with pure white. A lovely variety. 50c.; doz., \$5.00.

W. T. Abern.—The broad white petals are purest snowy white heavily banded at the margin with scarlet; a lovely flower and a perfect gem for cutting. A free grower and profuse bloomer. Each, 25c.; doz., \$2.50.

Kaiser Wilhelm.—(New.) Deep yellow, tip of petals bright red. Very large flower, early and free-blooming. The markings are more pronounced than any that we have seen of this type. Each, 50c.; doz., \$5.00.

Miss Ruth.—Pure yellow, each petal tipped with white; early, free-blooming and very pretty. Each, 30c.; doz., \$3.00.

Utz.—Red ground, more or less spotted with white, variable, sometimes entire flower pure red or white. Each, 30c.; doz., \$3.00.

Kleiner Dominikaner.—Pompon. Buff yellow sometimes sporting to white. Very pretty. A mass of bloom the entire season. 30c.; doz., \$3.00.

CURIOUS DAHLIA COLLECTION of 10 varieties, as above, Dry Roots, \$3.50.

CURIOUS DAHLIA COLLECTION of 10 varieties, as above, Pot Plants, ready April 1., \$2.50.

VAUGHAN'S 1891 DAHLIA COLLECTION.

This splendid collection comprises *one fine pot plant each of the 23 sorts offered on this page*, including the cream of the latest novelties, all flowered on our farm at Western Springs, which we send at the extremely low price of \$6.00, by mail or express, **prepaid**. A splendid chance to secure all the best novelties and the most desirable varieties offered in this country. The plants will be ready by April 20th.

EUREKA, ILL. The Rose and Dahlias sent this spring proved to be beautiful flowers and gave fine satisfaction. BEN. L. MOORE.

LODA, ILL., Oct. 17, '90. The White Dahlia I got of you last spring is a beauty and has been in bloom ever since the 1st of July. MAGGIE A. SNYDER.



* DOUBLE • LARGE • FLOWERING • DAHLIAS. *

Our collection, which we annually increase by the addition of the best new varieties in commerce, embraces the most vigorous kinds as well as a perfect assortment of colors. Our Dahlia grounds at Western Springs are a perfect blaze of color in August and September, nothing could be more brilliant. Visitors welcome.

BBE BERTIN.—Maroon, very dark.
IDA TIFFIN.—Buff tipped white.
RIEL.—Variegated, purplish red and white.
GOOLOR.—White, striped purple.
WIRD OF PARADISE.—White, tinged pink, profuse bloomer.
JOE RIDLEY.—Scarlet, very free blooming, fine.
MONNARD'S YELLOW.—Pure, tall, early.
CAMELLIA FLORA.—Dwarf habit, white, extra.
MANDY.—Maroon, striped lilac.
MAWN.—Dwarf, creamy white, tipped rose.
DOM PEDRO.—Scarlet and white.
SEM.—Crimson, very double, fine.
MOIRE DE LYON.—See preceding page.
FLOWING COAL.—Deep scarlet.
GOLDEN BEDDER.—Dwarf, yellow.
GLIDING STAR.—Pure white, petals toothed, grand.
JOEY FAWCETT.—Yellow, striped and spotted carmine.

MARGARET BRUANT.—Very dwarf, pure white.
MISS DODD.—The finest formed yellow Dahlia in cultivation. An old variety but rare. The blooms are of the largest size, perfectly double and on long stems. A late bloomer but the irreproachable style of its flowers will make up for any shortage in quantity. Has taken many first premiums.
NINA NEILSON.—Blush or pearl pink.
OVID.—Purple, fine.
PLUTON.—Rich yellow, fine.
PRINCESS MATILDA.—A grand white variety, dwarf bushy habit, free-blooming, fine for cutting.
PURPLE QUEEN.—Purple.
QUEEN VICTORIA.—Golden yellow, early, fine.
RED HEAD.—Red.
SNOW.—See preceding page.
SNOW CLOUD.—White.
VESTA.—White, large flower
WACHT AM RHEIN.—Maroon.

WHITE DOVE.—See preceding page.
YELLOW BEAUTY.—Yellow, pure.

DWARF BOUQUET DAHLIAS.

These varieties are of dwarfier growth than the foregoing, each plant forming a low dwarf-like bush covered with blooms of perfect shape and color.
A. EICHMAN.—Pink, notched petals.
ANGELICA.—Yellow, tinted buff.
BUTTERFLY.—Orange, tipped scarlet
COLIBRI.—Scarlet, bright.
IDA FISHER.—Pure white, early.
LITTLE SILVER PRINCE.—Silvery pink.
LURLINE.—Canary yellow, beautiful.
PERLE D'OR.—Lake red, base petals yellow
PERLHUBER.—Crimson, tipped white.
RUDOLPH KUHLE.—Maroon, tipped white
THEO. HEYMANN.—Dark red.
VENUS.—Carmine, early and free.

Any of above, **DRY ROOTS**, ready now. Ea., 25c.; doz., \$2.50. **POT PLANTS**, April, May and June. Ea., 20c., 3 for 50c.; doz., \$1.50



CACTUS DAHLIAS. Cactus Dahlias are distinguished from other Dahlias by their broad flat petals, more or less twisted. The origin of the Cactus class (so called because of the brilliant Cactus-like color and distinct form of petals as seen in the original species, Juarezi) date back but a few years, the older forms of the cultivated Dahlia having been introduced into England in 1789 by the Marchioness of Bute.

NEW CACTUS DAHLIAS.—(THE WARE SET.)

HENRY PATRICK.—The finest pure white in cultivation. Very double, large, flat petals more or less twisted. A grand sort and much superior to any other in this section.
LADY KERRISON.—Amber yellow distinctly edged with crimson. Quite separate and distinct from any other member of this set.
PRINCE ALEXANDER.—Fawn and salmon, a free bloomer. This is a most pleasing addition to this interesting class and a companion to the above.
WM. DARVELL.—A very fine variety. Purplish magenta, very double with petals so numerous as to form an almost perfect globe.
DRY ROOTS, now ready. Each, 35c. **POT PLANTS**, ready May 1st. Each, 25c. **The Seven**, Dry Roots, \$2.25; Pot Plants, \$1.50.

HARMING BRIDE.—Pearl white tipped rose.
ONSTANCE.—Ivory white; charming flower.
IMPRESS OF INDIA.—Deep crimson maroon.
DRY ROOTS, now ready, each, 25c.; doz., \$2.50.
JUAREZI.—Crimson scarlet, late bloomer, fine.
LADY MARSHAM.—Salmon, twisted petals, fine.
LYNDHURST.—Deep scarlet, shaded maroon.
MRS. HAWKINS.—Yellow tinged with red.
MR. TAIT.—Pure white, long narrow petals.
WM. RAYNER.—Salmon buff, very free-flowering.
POT PLANTS, ready April, May and June, each, 20c.; doz., \$1.50

SINGLE DAHLIAS.

RIDAL WREATH.—Creamy white, fine.
ANARY.—Pale yellow, fine form.
CHRISTINE.—Pink, well formed petals.
AUST.—Deep red.
DRY ROOTS, ready now, each, 25c.; doz., \$2.50.
POT PLANTS, in April, May, June, ea., 20c.; 3 for 50c.; doz., \$1.25.

JOHN DOWNIE.—Maroon black.
PARAGON.—Rich maroon.
SCOTCH LASSIE.—Buff, striped rose.

DAHLIA GRACILIS.

In our opinion Gracilis Dahlias nearly equal the choicest named single sorts. The flowers are quite as large, are earlier bloomers and excel in quality. They have very long stems making them desirable for cutting. Their free, elegant forms lend a charm to a collection of cut flowers that the doubles do not possess. Mixed, all colors, including striped and variegated.
DRY ROOTS, now ready, each, 15c.; 4 for 50c.; doz., \$1.25

VAUGHAN'S STAR COLLECTION OF DAHLIAS.

SIX DRY ROOTS, ready now, price, postpaid, \$1.00.

This collection represents the principal colors, all are the finest double sorts except one (Gracilis).

1 pure yellow; 1 pure white; 1 pure purple; 1 pure scarlet; 1 variegated; 1 Gracilis.

AMATEUR'S COLLECTION.

50 named varieties for \$5.00. All distinct.

In healthy young pot plants, ready April 1st, by express only, at buyer's expense.

100 named varieties \$12.00. All distinct.

Contains many new and recently imported sorts, of which at present we have not enough stock to catalogue names—and the best other sorts and novelties in our general collection. In healthy young pot plants, April 1st, by express only.

BULBS AND TUBERS.



PHÆDRANASSA.

ALBUCA.—A new bulb in the style of *Hyacinthus Candicans*. The flowers, however, are entirely distinct; being star-like in form and varying in color from white to yellow; sure to please. Large bulbs, each, 25c.

BESSERA ELEGANS.—Long narrow grass-like leaves and slender flower stalks, one foot high, carrying a loose umbel of flowers, each a scarlet bell marked with white lines, stamens with bright blue anthers. A wonderfully free bloomer. Each, 10c.; doz., 75c.

♦ CALADIUMS. ♦

One of the most effective plants in cultivation for planting out upon the lawn; its large handsome leaves often growing three feet long and twenty inches wide. It will grow in any good garden soil, and is of easiest culture. Can be stored in dry sand in a warm place over winter.

C. Esculentum. (Elephant's Ears).—Immense leaves of a fine rich green; very showy. First size bulbs, $2\frac{1}{2}$ to 3 inches in diameter, each, 35c.; doz., \$3.00. Second size, $1\frac{1}{2}$ to 2 inches, each, 15c.; doz., \$1.50. Extra large bulbs, each 50c.

C. Bataviensis.—Very similar to the *Esculentum*, but more rapid in growth; dark green foliage with red stems. Each, 25c.; doz., \$2.50. Extra large bulbs, each, 50c.; doz., \$5.00.

C. Fancy Leaved.—Bright and most peculiarly marked leaves. Grand decorative plants, from June until October. Easily grown. Bulbs must be stored in a quite warm but not too dry place in winter. Each, 30c.; dozen, \$3.00.

CRINUM KIRKII.—This magnificent bulb, which often attains the size of 6 to 8 inches, producing flowers of the greatest beauty. Usually, two flower stalks of dark purplish color are sent up at the same time, each bearing a large umbel composed of a dozen or more enormous lily like flowers of the greatest beauty and fragrance. The petals are broad, and pure white, with a deep reddish purple stripe through the center. A plant which always creates a sensation when it blooms, which it does with the greatest freedom. Extra large bulbs, each, \$1.00; three for \$2.00.

CRINUM AMERICANUM.—In every way this rivals the above in stateliness and grandeur, being pure white, waxy-like and fragrant, and producing as many, if not more flowers. Strong flowering bulbs, each, 50c.; 3 for \$1.00.

CRINUM CAPENSE.—Rose, sweet scented, one of the finest *Crinums*; hardly with slight protection. Producing many flower stalks; $2\frac{1}{2}$ to 4 feet high, and crowded with 10 to 15 blooms. Each, 40c.

CYCLOBOTHRHA FLAVA.—Flowers golden-yellow with fine black dots in the inside of the petals, bell shape. Each, 10c.; 10 for 60c.

FOURCROYA GIGANTEA.

—A bulbous species of *Agaves* often attaining immense proportions. They will frequently send up a flower spike 15 feet high crowded with greenish-white flowers, the foliage being very ornamental; it is therefore eminently adapted for decorative purposes. Each, 30c.; 2 for 50c.

RED-FLOWERING GINGER.—Having but recently received this novelty, we can only say that it is spoken of as a unique color among *Gingers*. It is said to bear large panicles of scarlet flowers, lasting in perfection for three weeks. The roots which increase very rapidly, are very valuable for preserving. Ornamental foliage. Large roots, each, 25c.

HABRANTHUS ANDERSONI.—A most charming bulb, producing in early spring a number of erect flowers of a coppery color shading to red. Each, 15c.; 4 for 50c.

Hyacinthus Candicans—A coarse but showy flower; the bulbs are very cheap and can be effectually used for borders and along fences. Each, 10c.; 3 for 20c.; doz., 75c.; 100 by express, only \$2.50.

Lily of the Valley.—No garden is complete without a few clumps of these fragrant flowers which are such universal favorites as to need no description. Pips, per doz., 40c.; per 100, \$2.50; strong clumps, heavy, by express, each, 50c.; doz., \$4.50.



CRINUM KIRKII.



OXALIS, GOLDEN STAR.

Maranta Arundinacea.—The arrow root plant of the South, a useful product; a good foliage plant of rapid growth. Each, 10c.; 3 for 25c.

Milla Biflora.—One of the finest bulbs; flowers pure waxy-white, very fragrant, petals are very thick and firm and flowers last well in winter. It blooms with wonderful freedom. Each, 10c.; 10 for 70c.

Montbretias.—A very pretty *Gladiolus*-like class of bulbs, free blooming and easy of cultivation. The sorts we offer, succeed well in any sunny spot in fairly rich, well drained soil; must be taken up in the fall and wintered like a *Gladiolus*. They are in

full glory a month after all tender plants are killed by frost.

Montbretia Crocosmiflora.—Large flowers, on spikes twelve to twenty-four inches long, bright orange, dotted purple. Each, 10c.; doz. 75c.

Montbretia Pottii.—Flowers funnel shaped, bright orange red with spotted throat. Each, 10c.; 3 for 25c.; doz., 75c.

OXALIS.—(Summer blooming). Valuable for edging the borders of walks or flower beds. When planted two inches apart they soon produce an unbroken row of beautiful foliage and pretty flowers. They are also excellent for pot culture. Varieties, *Dieppli*, and *Lasiandra*, each, 10c.; 100, 40c.

O. Arborea Tricolor.—Very pretty, of easy culture; each, 10c.; doz., \$1.

O. Origiesi.—(Golden Star). Grows as pretty as a *Geranium* in any situation. Constantly loaded with golden star shaped flowers. Ea, 25c.; doz., \$2.50.

Pontederia—(Orchid Water Lily). This rare and beautiful Water Lily differs from any other water plant in unique foliage. Orchid like flowers about $2\frac{1}{2}$ inches in diameter; color, delicate lilac, shaded with rose with an orange spot on the upper petal. The plants will thrive in any vessel of water placed in the sun. The most beautiful effect is produced by using a glass vessel of some sort, with shells and white sand so arranged in the bottom as to conceal a small amount of soil. Each, 25c.; 3 for 65c.; doz., \$2.50.

Phædranassa.—(Gay Queen and Queen Lily). A rare bulb from South America. Flowers, bright in color, freely produced; foliage, ornamental.

P. Chloracea.—Flowers of a purplish-rose tipped with green; often measure three inches in length. Each, 20c.; 3 for 50c.

P. Viridiflora.—Flowers of a greenish-yellow, nodding, narrow funnel shaped; very fine. Each, 20c.

P. Gloriosa.—Scarlet, yellow and green; a rare sort. Each, 25c. One blooming size bulb of each for 50c.

RESURRECTION PLANT.

A curious plant of the South, which *Orchid*-like, seems to draw its substance from the air and if taken up and allowed to dry, becomes dormant, but possesses the remarkable power of becoming fresh and green, in a single night after being given water. Each, 15c.; two for 25c.

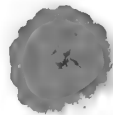
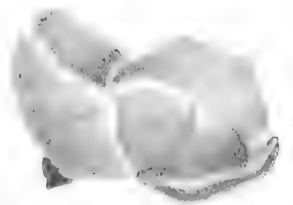


PONTEDERIA.



CALADIUM ESCULENTUM

VAUGHAN'S
SEED STORE
CHICAGO.



BEGONIAS

OF ALL the introductions of recent years none have received a heartier welcome than the giant-flowered single Tuberous-rooted Begonias, which have been brought to wonderful perfection. The flowers in our illustration have been drawn to a reduced scale in order to bring them within the limited space at our disposal. They grow six inches in diameter, are borne upright on stiff stems and out-rival in colors the most brilliant and dazzling Geranium flowers. They are excellent plants for house-culture and make splendid beds on the lawn. We furnish printed directions with each package—how to sow the seed and take care of the bulbs.

BEGONIA SEED, Choicest Single Prize Mixed. Saved from the deepest crimson to the lightest including all colors from the deepest crimson to the lightest pink, orange, golden yellow and white. Per pkt., 25c.

Choicest Double Mixed. The seed of this superior strain may be depended upon to produce a fair percentage of double flowers of like size and various shades. Per pkt., 35c.

BEGONIA BULBS, Single very finest varieties: White, Scarlet, Pink and Yellow, each, 25c.; per doz., \$1.50; one each of the 4 colors for 75c.

Single Finest Mixed, each, 40c.; doz., \$4.50.

Double Finest Mixed, each, 40c.; doz., \$4.50.



LILIUM SPECIOSUM.

LILIES

"Have you seen but a bright lily grow
B-fore rude hands have touched it?"—BEN JONSON.

"Lilies more white than snow,
New fallen from Heaven, with violets mixed did grow."

No garden flower has so many distinct and beautiful varieties as the Lily, and most sorts are sufficiently hardy to be grown in our gardens with a little extra protection in the winter. Their elegant habit of growth, and beauty and fragrance of flower, render them unequalled in borders and clumps, or among shrubbery. The soil is most favorable if well mixed with peat or leaf-mold and sand. Plant six or eight inches deep, and about twelve inches apart; cover at the approach of winter with dry leaves or manure, three or four inches deep. Plant as early in the season as possible, and put them in earth as soon as received. When planted outside it is well to leave them undisturbed for a number of years, as they bloom best when thoroughly established.

WALLACE'S NOTES ON LILIES.—An interesting and valuable book on Lilies, indispensable to Bulb Growers. Illustrated. Cloth (215 pages), \$2.25.



LILIUM AURATUM, OR GOLD-BANDED JAPAN LILY.

THE RATES FOR SINGLE BULBS INCLUDE POSTAGE.
DOZEN RATES ARE BY EXPRESS, AT YOUR EXPENSE.

LILIUM HARRISII.

OR BERMUDA EASTER LILY.

Immense pure white trumpets, with a very delicate pervading fragrance; remarkable for its earliness and extreme profusion of bloom, flowering much earlier than any other variety known, and with such freedom that even the smallest bulbs surprise you with their flowers. They are the finest Lilies for house culture, and are largely in use for winter forcing. The Longiflorum, see below, helps to extend the season of this beautiful sort. Good Bulbs, each, 20c.; doz., \$1.75.

LILIUM LONGIFLORUM.

A variety bearing in clusters beautiful snow-white trumpet-shaped flowers of rare fragrance; almost exactly like Liliun Harrisii in shape, but blooms later, extending the season of that beautiful kind. Each, 15c.; doz., \$1.50.

ONE FINE BULB OF EACH OF THE ABOVE FOUR GRAND SORTS, POSTPAID, FOR \$2.00.

AURATUM RUBRUM VITTATUM.—A rare species recently imported from Japan; very large white flowers, with crimson spots and a broad crimson band on each petal. Large Bulbs, each, \$1.25.

BATEMANII.—Flowers rich apricot color. Each, 25c.; doz., \$2.50.

BROWNII.—A very large, handsome variety; flower a spreading trumpet, purple outside, creamy white inside, with stamens of rich chocolate color; very fine. Each, \$1.25.

OSANADENSE.—This pretty Lily is one of our hardy native sorts, and bears a graceful stem of drooping, bell-shaped yellow and red flowers. Each, 10c.; doz., \$1.00.

CANDIDUM.—The pure white garden or Easter Lily; flowers snow white, with heavy yellow stamens; hardy and free-blooming, bearing five to twenty blossoms. Plant early and leave them undisturbed. Each, 12c.; doz., \$1.25.

COLUMBIANUM.—Flowers bright, reddish orange, with purple dots. Each, 25c.; doz., \$2.00.

ELEGANS, or THUNBERGIANUM.—Early flowering, ranging in height from four inches to four feet; flowers cup-shaped, borne upright, and of a great variety of colors. They are very effective planted either in lines or clumps, and include many showy sorts. Mixed. Each, 15c.; doz., \$1.25.

EXCELSUM.—This stately and beautiful Lily is a favorite wherever known. It grows from five to six feet high, and bears six to twelve fragrant nodding Lilies of a delicate light buff color. Each, 50c.

MARTAGON.—(Turk's Cap).—Drooping Lilies with deeply recurved petals, spotted purple; mixed. Each, 15c.

PARRYI.—A pretty California Lily; light yellow, spotted with purplish chocolate; very fragrant. Each, 40c.

PARADALINUM.—A rich yellow and scarlet, spotted with purple. Each, 25c.

PULCHELLUM.—Blossoms with Tenuifolium; flowers borne upright, bright crimson, spotted black, spreading their petals nearly at right angles. Hardy as the Tiger Lily. Very showy. Each, 30c.

SUPERBUM.—The finest of the native Lilies; flowers bright orange red, thickly spotted with purple. Each, 10c.; doz., \$1.00.



THE BERMUDA EASTER LILY.

LILIUM GIGANTEUM.

So called from its immense size. Was introduced from the Himalayas of Northern India. This GIANT of Lilies, with its tall, stately stem growing away above all others of that species, causes wonder and amazement wherever seen. The flowers measure from five to six inches in length, are of a beautiful white slightly tipped with green on the outside and with purple on the inside. We have, after much delay and expense, secured reliable bulbs of this grand variety, and offer them at the low price of \$1.50 each.

LILIUM AURATUM.

Immense white flowers, each petal marked with a wide gold band and spotted with maroon; very free blooming. It is considered by many the finest of all. See cut. Fine Bulbs, each, 30c.; doz., \$3.00. extra large Bulbs, each, 50c.; doz., \$5.00.

TENUIFOLIUM.—(SIBERIAN LILY).—A native of Siberia. One of the very hardiest Lilies; flowers vivid scarlet, with petals reflexed; very showy and free flowering, blooming early in the spring. It is very easy of cultivation, requiring only a well drained, sandy soil. Each, 30c.; four for \$1.00.

TIGRINUM.—(SINGLE TIGER LILY).—Very hardy; black. Each, 10c.; doz., \$1.00.

TIGRINUM SPLENDENS.—This variety is much finer and of a far more vigorous growth than the ordinary Tigrinum, often bearing twenty-five flowers of a beautiful orange salmon color, and having larger spots of purplish black. Each, 20c.; doz., \$2.00.

TIGRINUM FLORE PLENO.—(DOUBLE TIGER LILY).—Each, 15c.; doz., \$1.50.

WALLACEI.—Clear buff flowers, spotted with black. A very distinct and handsome Japanese variety; free flowering, a strong bulb often bearing several flower-stalks. Each, 20c.; doz., \$1.75.

SPECIOSUM SORTS.

As a whole, the most desirable section of all Lilies for general cultivation. The varieties are distinct, graceful, beautiful and free-blooming. They are hardy, needing very little protection, and will grow and flower without any special treatment.

ALBUM.—Pure white and very fragrant. Each, 35c.; doz., \$3.50.

ALBUM PRÆCOX.—A lovely, pure white Lily, with petals reflexed and slightly tinted pink at the tips; center of the flower is embellished with a fine long fringe. It is perfectly hardy, and altogether one of the finest of the white varieties. Each, 35c.; doz., \$3.50.

RUBRUM.—White ground, with bands and spots of rose or crimson on each petal. One of the best Lilies. We have a splendid stock of this very hardy and beautiful kind, which have flowered the last season on our grounds at Western Springs. Each, 20c.; doz., \$1.50.

MONSTROSUM RUBRUM.—Distinct variety, with broad, flat stems and of color similar to the preceding. Free-blooming. Each, 20c.; doz., \$2.00.

Vaughan's Gladioli



WE cannot emphasize too strongly the desirability of this magnificent flower. Their adaptability for garden beds, and the ease with which they can be brought into flower at any time during the summer months, their rapid increase while flowering, and their permanent value as dry bulbs, claim the highest consideration.

Many bulbs lose their value with the first flowering; many of our finest plants are worthless in autumn. Few of either bulbs or plants can be increased and easily cared for like the Gladiolus. Their immense spikes of gorgeous bloom comprise in color all the shades from white to deepest scarlet, purple and yellow. They are UNEQUALLED FOR VASE DECORATION, as the spikes may be cut when partially in bloom, and will last for a week or more, the buds expanding into perfect blossoms as the older florets fade. Take up in the fall and store in a dry cellar or other cool place, well protected from frost. Much difference exists in size of flowers of many sorts of Gladiolus. Our list comprises only large flowering kinds; all the older small flowered sorts have been discarded, even from our cheapest mixtures.

OUR COLORED PLATE COLLECTION.

10 BEAUTIFUL GLADIOLI.

Ranging in color from the most delicate shade of rose to the darkest crimson, blotched and striped in a most marvelous manner. **TEN FINE BULBS** that will increase tenfold without any extra care or trouble.

ENFANT DE NANCY—Flowers medium size; purplish red, lower petals deep crimson. **ISAAC BUCHANAN**—Fine yellow. **ADDISON**—Dark amaranth, with fine stripes. **OCTOROON**—Light delicate buff, tinged rosy salmon; lemon blotch on lower petal; spike long and straight. **STELLA**—White, slightly tinged with yellow and rose; flamed with carmine. **MAD. MONERET**—Delicate rose, with white stripe in center of each petal; carmine blotch on salmon ground. **MARIE LEMOINE**—Flowers closely set on the spike, which is about one foot long; upper petals creamy white, tinted salmon red, the lower ones spotted with purplish crimson, bordered with bright yellow and salmon red. **BRENCH-LEYENSIS**—Bright scarlet. **CERES**—Pure white, spotted with purplish rose. **NAPOLEON III.**—Bright scarlet, striped white in the center of the petals. With the above we will send, gratis, one *Montbretia Crocosmiaeflora*, which, as may be seen in the colored plate, is not unlike the Gladiolus, and should be grown and wintered in a similar manner. **TEN BULBS THAT WILL PLEASE YOU**, all for the nominal price of 50 Cents, postpaid.

VAUGHAN'S MIXED GLADIOLI.

For brilliant coloring and showy bloom, we recommend the following mixtures as UNEXCELLED:

	Doz.	50.		Doz.	50.
RED of various shades.....	30	\$1.00	FINE MIXED, all colors.....	30	\$1.00
LIGHT and WHITE shades.....	60	1.50	EXTRA MIXED, all colors.....	40	1.50
PINK of various shades.....	60	1.50	*VAUGHAN'S Choice Seedlings.....	75	2.50
STRIPED and VARIEGATED.....	60	1.50			
YELLOW shades.....	60	2.00			
SALMON shades, each, 10c.; doz.....	50				

REPAYMENT: Dozen prices and less go prepaid; 50 quoted in lots of 25 or more go at buyer's expense.

BLUE CLOUD.—(Nuee Bleue), a Grand Novelty. We offer here, the first time, a Blue Gladiolus. This color, so long sought in vain, among many flowers, Dahlias, Roses, Chrysanthemums, Geraniums, .. as well as Gladiolus, has at last been found in this triumph of the orchid horticulturists. The plant is as hardy as any of its class; an early and continuous bloomer. Flowers of medium size, violet blue, with blackish violet, bordered blue with yellow streaks in the center of the petals, and edged deep lilac, and slightly scented. Price, each, \$2.50.



BULB OF GLADIOLUS SHAKESPEARE.

NAMED VARIETIES.

	EACH.
AGATHA, rose shaded; clear yellow spots.....	\$.10
AMALTHEE, velvety violet and white; large violet red blotch.....	.10
ANGELE, large showy white flowers.....	.10
ANTONIUS, scarlet cherry tinged with orange; pure white blotch.....	.10
ASTREE, white with velvet blotch; throat suffused lilac.....	.25
CICERON, large open flowers, fine rose; white throat.....	.15
CLEOPATRA, soft lilac, shaded velvet, purple blotched.....	.15
CONQUETE, large cherry flowers, shaded rose, white blotched.....	.20
DIAMOND, early; flesh-white, throat ivory white, blotched carmine.....	.15
ELEGANS, cherry, tinged brilliant orange, large white blotch.....	.15
ESMERALDA, ivory-white marked carmine, lemon-yellow blotch.....	.20
EUGENE SCRIBE, flowers large, wide; rose blazed with carmine. (Doz. 75c.)	.10
FATMA, large; ivory-white, striped rosy salmon, violet blotched.....	.20
FELICIAN DAVID, cherry; light carmine feathered white blotch.....	.20
JAMES CARTER, light, orange-red, large pure white blotch. (Doz. 75c.)	.10
JOHN BULL, white, slightly tinged with sulphur. (Doz. 75c.)	.10
LA CANDEUR, white, lightly striped with carmine violet.....	.15
LAMARCK, long spike, orange and cherry, large white stain.....	.20
LE POUSSIN, light red, white blotch.....	.15
LORD BYRON, brilliant scarlet, blotched white.....	.10
MAZEPPA, rosy orange, striped with carmine.....	.10
MME. DE VATRY, white, with purplish carmine blotch.....	.20
MEYERBEER, brilliant scarlet, flamed vermilion, red blotch.....	.30
NORMA, white, sometimes tinted lilac.....	.30
PHEBUS, brilliant red, large white blotch.....	.20
PRINCESS OF WALES, white and carmine rose, carmine blotch. (Doz. 75c.)	.10
REINE BLANCHE, pure white, dark crimson blotch.....	.20
ROMULUS, extra early; dark red, lined and blotched with white. (Doz. 85c.)	.10
SHAKESPEARE, flowers very early; bulb extra large, producing very large flower spike; color nearly white, tinted with carmine rose, with a rosy blotch on lower petals; one of the best. Price, extra bulbs, each, 20c.; 6 for \$1.00; by express, 12 for \$1.75; 25 for \$2.50.	
VAN DYCK, crimson-amaranth, striped with white.....	.10
VIRGINALIS, pure white, bordered and flamed with carmine.....	.50

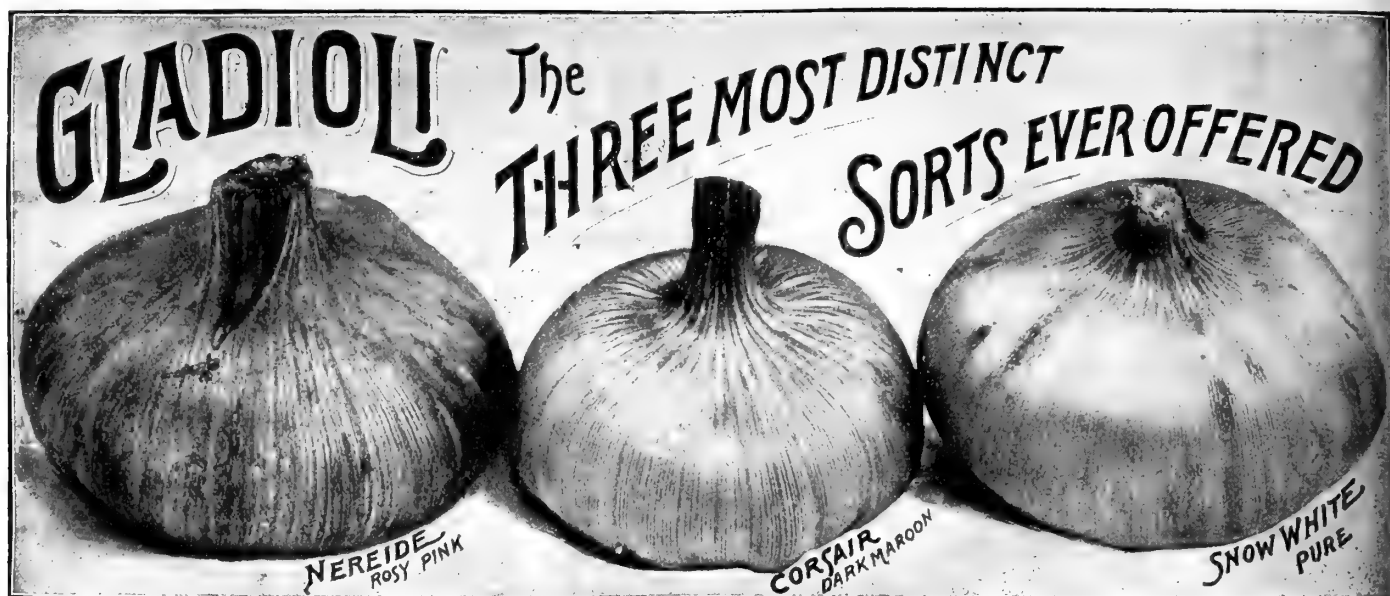
LEMOINE GLADIOLI.

This brilliant class of half-hardy Gladioli is known as LEMOINE'S HYBRIDS. They are unequalled for their brilliant and rich coloring, which reaches its climax in the blotch, the typical and remarkable feature of the variety.

LEMOINE SEEDLINGS, Fine Mixed.—Each, 6c.; doz., 60c.
LEMOINE SEEDLINGS, Extra Fine Mixed. Raised from seed from the finest sorts, and selected for brilliancy and distinctness. Each, 10c.; doz., \$1.00.
SMALL LEMOINE BULBETS.—Mixed from named sorts; 75 per cent. will bloom the first season. Each, 5c.; doz., 50c.

HALF-HARDY GLADIOLI.

These are the hardest of the Gladioli; three rare sorts. **The three for 60c.**
BYZANTINUS, crimson-purple, pretty orchid shape, small and early; each, \$.5
DRACOPHALUS, a most curious bronzy yellow flower; each..... .25
SAUNDERSON, rich orange-scarlet; petals glisten and sparkle like crystal. .50



FIVE FINEST GLADIOLI EVER INTRODUCED.

CORSAIR.—Very intense dark and velvety scarlet, with brown at the edges of the sepals. Very attractive. Each, 60c.

NEREIDE.—Mother of pearl rose, suffused with lilac, blotched bright violet. Each, 60c.

VICTOR JACQUEMONT.—Bright orange flowers, profusely flamed with scarlet. Ground violet; blotch bright violet, streaked and speckled with pure white. Each, 50c.

MADAME AUBER.—Handsome, compact spike of extra large flowers, of a pale rosy lilac. The blotch on lower petals is creamy white, shaded with light rose on some of the flowers. Each, 50c.

SNOW WHITE.—THE BEST WHITE GLADIOLUS IN CULTIVATION.—Nearly the entire flower is a perfect paper-white, with a slight cream shade on lower half of the lower petal. A faint line of purple extends about half-way through the lower petal. Each, 35c.

Five Strong Bulbs as above, postpaid, for.....\$2.00
The Three Sorts shown on cut above for.....1.25

COLLECTION OF EXTRA SORTS.

Every member of this collection of ten named sorts is a gem. We have chosen them from among the most striking of our assortment. All are first size bulbs, and we know will give complete satisfaction. We have also attached prices at which we can supply single bulbs. No premium with these special collections. The 10 for \$2.25. EACH.

AFRICAIN. very peculiar and distinct, slaty brown on scarlet ground, streaked scarlet and pure white; conspicuous white blotch.....\$.25

ARCHDUCHESS MARIE CHRISTINE. white, slightly tinged with lilac, flamed rosy carmine; large flowers of excellent form......30

AUORE. bright salmon rose, marked orange, carmine and lilac; blotch cherry rose-streaked violet; a grand new variety......35

BARONESS BURDETT COUTTS. delicate lilac, tinged with rose, flamed rosy purple; spike long and flowers unusually large......35

CARNATION. well expanded flowers of a fleshy white color, profusely tinged at edges with richest carmine; lower edges blotched purplish crimson......30

CERVANTES. flowers very large, bright rose color, tinted lilac and marked with carmine; pure white band on each petal......25

FLAMBOYANT. large flowers of fiery scarlet......25

LE VESUVE. intense fiery red; very rich......25

LE TITIEN. very brilliant, rosy scarlet......25

PEPITA. bright golden-yellow flowers; free-blooming......25

CALIFORNIA SEEDLINGS.

A new strain with large bold flowers of great substance, clustered on stiff, low-growing spikes. The grower claims for them unusually lasting quality, enduring the bright sun shine and dry air of California for days without injury. We have a quantity of good blooming-sized bulbs, which we offer at 50c. per doz.; by express, 25 for 75c.



TUBEROSE BULB.

"LOS ANGELES, CAL., June 26, 1890. The Gladiolus I got from you a year ago are the largest and finest I ever saw. Sandy soil seems to be the only soil adapted to them here."—ELI SNYDER.

VAUGHAN'S TUBEROSE BULBS.

We believe our stock of Tuberoses is the largest in this country, our supply for wholesale, foreign and retail trade for this season being over half a million bulbs. They have been carefully grown, and we give our own supervision to the harvesting, curing and shipping. This season the bulbs are of superior quality, free from disease, and are as fine as can be selected. Our enormous sales are ample evidence that our bulbs give satisfaction. We offer special rates to large buyers.

CULTURE.—The growing plant is fond of light and heat, and must have full sunlight when bedded and plenty of water when it begins to grow freely, but not too much water when first started, and should not be planted outside before April 1st. The bulbs may be planted at intervals of a week or so to give a succession of bloom, in which case the late plants may be brought indoors (if in pots sunk in ground), to flower in the house in autumn.

DOUBLE DWARF PEARL.—Spike 2½ to 3 feet high, crowded with large and very double flowers, favorite sort with florists. Prices as follows:

First Size Bulbs, 3 for 20c.; doz., 60c.; not prepaid, each, 5c.; doz., 36c.; 100, \$2.00.

Mammoth Bulbs, especially selected for our retail trade, postpaid, each, 10c.; doz., \$1.00; not prepaid, each, 5c.; doz., 60c.; 100, \$3.

Second Size Bulbs, all flowering, six for 20c.; doz., 30c.; not prepaid, doz., 25c.; 100 for \$1.25.

TALL DOUBLE.—Flower spike 3½ to 5 feet high; fine open flowers; free-blooming. First size, postpaid, 3 for 20c.; doz., 80c.; not prepaid, doz., 35c.; per 100, \$2.00. Second Size, 6 for 20c.; doz., 30c.; not prepaid, doz., 25c.; 100 for \$1.25.

VARIEGATED LEAVED.—This is an early single kind, with striped foliage; flowers not equal to the double ones. Prepaid, each, 10c.; doz., \$1.00.

SINGLE.—Sometimes called Orange-Flowered. Bloom very early, and are exceedingly graceful and pretty. Prepaid, each, 8c.; doz., 60c.

TUBEROSE COLLECTIONS.

MAIL TUBEROSE COLLECTION.—5 Mammoth Pearl, 3 Tall Double, 2 Variegated, 2 Single. All postpaid for 80 cents.

EXPRESS TUBEROSE COLLECTION.—12 Mammoth Pearl, 6 Tall Double, 3 Variegated Leaved, 3 Single. Not prepaid, the 24 for \$1.00.

TUBEROUS BEGONIAS.

As stated on our Colored Plate, no better plants have become prominent in recent years. Those who know their beauty and value will appreciate the collections we offer here of fine double named kinds in dozen lots at reasonable prices. See Colored Plate for prices on seed as well as single varieties and double mixed. These are from the very best hybrids of English and French growers, and must not be compared in price with those ordinarily offered.

DOUBLE NAMED KINDS.

K Collection, 12 Good Sorts,	\$ 5.00
L Collection, 12 Extra Sorts,	7.50
M Collection, 12 Double Extra Sorts,	10.00

FOR VARIETIES NOT OFFERED HERE, SEE OUR SPECIAL GLADIOLUS CATALOGUE, MAILED FREE.

— GREENHOUSE PLANTS. —

ABUTILON. (CHINESE BELL-FLOWER.)—Pretty flowering shrub, easily grown in pots, blooms abundantly; flower drooping, bell shaped, white, crimson, yellow, orange or variegated.

Alba de Neige, pure white.

Alba de Malakoff, crimson.

Alba de Malakoff, pale yellow.

Vexillarium Pictum, flowers red and yellow, foliage prettily variegated brown and green, trailing habit; fine vase or basket plant.

Caprice, crimson, leaves marbled yellow and green. Each, 20c.

Any of above, except where noted, each, 10c.; per doz., \$1.00.

ACALYPHA Macaefana, large, brownish red foliage, good bedder. Ea., 20c.

A. Marginata, like preceding except leaves are margined rose. Each, 20c.

AGAPANTHUS Umbellatus Variegatus. (AFRICAN LILY.)—Long strap shaped leaves, heavily margined white, flowers blue in large umbels, smaller than Lemon Lily, a fine window and house plant. Each, 50c.

ALOCASIA Arborea.—Related to and somewhat like the well known Alocasia Esculentum. In place of a bulb this species has a stem crowned with light Caladium-like leathery green leaves. This plant is specially recommended for conservatory and house decoration. It increases in size and value from year to year. Each, 50c. and \$1.00.

A. Illustris.—Much like ordinary Caladium, needs same treatment, good foliage plant, very large green leaves, regularly marked with large black-green spots or markings on each side of the midrib. Each, 50c. to \$1.00.

ALOYSIA Citriodora. (LEMON VERBENA.)—When lightly brushed the leaves emit a most delightful refreshing odor. Each, 15c.; doz., \$1.50.

ALLAMANDA Hendersoni.—Large trumpet shaped golden yellow flowers in clusters. A free blooming climber for conservatories and bay windows in the North. Hardy in Florida and on the Pacific coast. Each, 25c.

ALYSSUM.—The double form of the sweet scented Alyssum is more lasting than the single. Flowers white in spikes. Always in bloom. Ea., 10c.; doz., \$1.

ANTHERICUM Pictum.—A handsome foliage plant. The long flat leaves are heavily banded in center with white; narrow green margin. An easily grown vase and basket plant. Each, 25c.

ASPARAGUS Tenuissimus.—Handsome evergreen climber with extremely delicate foliage which is well adapted for bouquet work. Easily grown. Each, 20c.

ASPIDISTRA Lurida.—One of the few plants that seem to flourish and do well in the hot air of a conservatory; leaves dark green, 12 to 18 inches long, 2 to 3 inches wide, flowers inconspicuous, produced annually at the surface of the ground; a very elegant decorative plant increasing in value and beauty with age. Ea., 50c.

A. VARIEGATA.—Leaves splashed and spotted creamy white; one of the most popular decorative plants of the year. Each, 75c.

AZALEA Indica.—Well known winter flower-decorative plants, in many varieties, double and single. In potting use leaf mold, sharp sand and rotten manure in equal proportions. Large plants by express, \$1.75; doz., \$7.50. Small plants of the white variety, 50c. each, by mail, each, 25c.

BANANA, see *Musa*.

CANNAS.—Pot grown from choice hybridized seed of the famous Crozy strain. May be expected to produce fine new varieties. Each, 15c.; doz., \$1.50.

CALLA LILIES.—Favorite plants for the conservatory. Fine large Californian grown dry bulbs are supplied through fall and early winter. Pot plants ready, two sizes. Each, 20c. and 35c.

CENTAUREA Gymnocarpa. (DUSTY MILKWORT.)—Valuable beautiful plants with silvery white flowers, fine for contrasts. Each, 10c.; doz., \$1.00.

COBEA Scandens.—Rapid growing vine with large bell-shaped purple flowers. Ea., 25c.; doz., \$2.50.

CROTONS.—Elegant foliage plants, leaves of various shapes, variegated green, yellow and red, good bedders in extreme south. Each, 50c.; doz., \$5.

DRACENAS.—Handsome decorative plants, leaves variegated rose and red on green ground, tropical looking foliage. Each, 25c. and 50c.

D. Indivisa.—Long narrow green leaves, much used for centers in vases, baskets and flower beds; good house plant. Each, 25c., 60c. and \$1.00.

ERYTHRINA Hendersoni. (THE CORAL BEAN.)—Long spikes of very large pea shaped flowers, brilliant scarlet, sure to bloom. Very striking and handsome. Plant in a sunny place. Each, 35c.

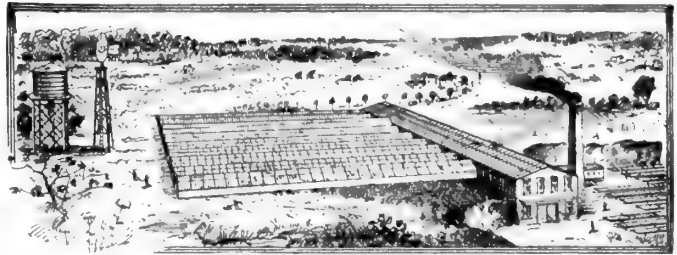
ECHEVERIA. (HOUSE LEK.)—Thick fleshy leaves forming little rosette-like tufts, much used in pots and gardens for bedding. Ea., 15c.; doz., \$1.50.

FEVERFEW, Little Gem.—Much the best variety. Flowers very double, pure white, in bloom all summer. Each, 10c.; doz., \$1.00.

Golden Fleece, yellow.

Rosaflorum, rose color.

Thompsoni fl. pl., orange.



VIEW OF OUR GREENHOUSES, WESTERN SPRINGS, ILL.

• BEGONIAS. •

The most useful, ornamental and handsome of house plants. For convenience we divide them into three classes, those of shrubby growth, Rex Varieties, and Tuberous rooted.

SHRUBBY VARIETIES.

Alba Picta.—A compact shrubby Begonia with glossy green foliage, spotted pearly white. A perfectly distinct variety.

Argentea Guttata.—New; leaves wine color, spotted pearly white, a free and elegant grower, flowers pale pink. All around the best new Begonia.

Bertha.—Everblooming, clusters or sprays of pale red flowers.

Compte.—Leaves banded silvery white.

DEWDROP, Everblooming.—Flowers in clusters, white; leaves medium size, easily grown; the most desirable of the newer Begonias, illustration is from photo of very small plant blooming at our greenhouses. Ea., 25c.; doz., \$2.50.

Diadem.—Upright growth, curious leaves heavily spotted and marked with silvery white. Ea., 20c.

Gloire de Sceaux.—Beautiful lustrous bronzy foliage, large pink flowers produced in greatest profusion during the winter months. Habit excellent, upright and compact. Each, 25c.

Incarnata.—Winter bloomer, immense clusters of waxy pink flowers in great profusion.

Lobata Variegata.—Handsome foliage, spotted silvery white. Fine for contrast.

Metallica.—Handsome dark foliage, bronze green with depressed red veins, leaves triangular in form, flowers very freely; a favorite sort.

Multiflora.—Winter bloomer, covered with small pale pink flowers. A favorite sort.

Nitida.—Like Nitida, tinged pink. Each, 15c.

Rubra.—A rapid grower and remarkably full of bloom; fine waxy leaves and coral flowers. Each, 15c.

Sandersoul.—Everblooming, neat, pretty foliage, large clusters of coral red flowers.

Semperflorens Alba.—Fine white sort, flowering from October to May.

Semperflorens Gigantea Rosea.—Very large clusters of rosy red flowers; upright, strong, continually in bloom and altogether one of the very best. Each, 20c.

Price, except noted, each, 10c.; doz., \$1.00.

REX BECONIAS.

Many Choice Varieties, our selection. Each, 20c.; doz., \$2.00.

TUBEROUS ROOTED. See Colored Plate also "Bulbs and Tubers."

CALADIUM Esculentum (See Bulbs and Tubers.)

FERNS, Adiantum (MAIDEN HAIR) and other handsome varieties. Each, 15c.; doz., \$1.50.

HOYA CARNOSA. (WAX PLANT.)—Climber, large fleshy leaves; clusters of star shaped, glistening waxy white fragrant flowers which last in perfection a long time. One of the most valued and easily grown house plants. Each, 25c.

HIBISCUS SINENSIS.

Shrub like plants with very large single or double flowers, freely produced through the summer. Should be taken up in fall, potted and given all the light possible. They bloom late in winter in the house.

COOPERI.—Pretty white pink and green leaves; flowers single red.

FULGENS.—Single, brilliant scarlet.

LUTEA PLENA.—Double lemon yellow.

MINIATA SEMIPLENA.—Scarlet.

RUBRA.—Fine double red. Attractive.

SUB VIOLACEA.—Double rosy red.

VERICOLOR.—Single, rose color. Each, 15c.; per doz., \$1.00.



BEGONIA, DEWDROP.



BEGONIA, ARGENTEA GUTTATA.

CARNATIONS.

Too well-known to require any introduction. The following list contains the cream from all growers:

LIZZIE MCGOWAN.—New. A new white. Blooms uniform size, fully as large as the largest Lamborn. Growth compact, very vigorous and clean. The average size of bloom is $2\frac{1}{2}$ to $2\frac{3}{4}$ inches in diameter. It takes first rank in whites. Each, 30c.; doz., \$3.00.

GOLDEN GATE.—New. Rich golden yellow. Flowers of largest size and freely produced. An American variety, the first of its color (pure) originating in this country. Each, 35c.; doz., \$3.00.

FRED. CREIGHTON.—New. Rich salmon pink; petals fringed, florets large and fragrant, on long stems. Each, 20c.; doz., \$2.00.

J. R. FREEMAN.—New. Crimson. Large florets, long stems; the best of its color. Each, 20c.; doz., \$2.00.

MRS. FISCHER.—New Boston variety. White. Very large, fine form, long stems, remarkably prolific bloomer. Splendid habit. Clean, nice erect grower. Each, 20c.; doz., \$2.00.

DAYBREAK, Novelty of 1891.—A soft sea-shell pink grown by Simmons & Co., the originators of Tidal Wave and Silver Spray, who thoroughly endorse this. Each, 30c.; doz., \$3.00.

AMERICAN FLAG, Novelty of 1891.—A new and distinctly striped deep scarlet and white, originated near Brooklyn, N. Y., and destined to become popular because of its showy color and good name. Each, 35c.; doz., \$3.00.

The Set of 7 for \$1.25.

NEW MARGARET

See Colored Plate
Front Cover.

CARNATIONS.

FOR SUMMER BLOOMING.

We bedded out 800 small plants raised from seed of the New Margaret Carnations last spring for trial. A few plants commenced to bloom in 5 weeks from planting, the balance in from 8 to 10 weeks. Ninety per cent. were double, all handsomely fringed, colors ranging from purple to crimson, maroon, red, white and striped. Blooms compared with the winter blooming sorts proved to be nearly or quite as large, very fragrant, producing double the number of flowers. We believe this to be the beginning of a new race in Carnations, a summer blooming or bedding class. Some of the best varieties were selected for propagation. We have now raised a fine lot of healthy young plants, and offer in all colors, full double fringed. Each, 15c.; doz., \$1.50.

COLEUS, NOVELTIES.

ARTHUR WHITLEY.—Long narrow leaves, purplish maroon flaked with various shapes of rose; distinct. Each, 30c.

BANNER.—Narrow painted leaves, green margin, center rosy pink, differs from any of this type, coloring constant. Each, 30c.; doz., \$3.00.

BECKWITH'S GEM.—Style of old Chameleon; unlike it, however, as the colors "come again," center of leaves crimson and scarlet, broad margin, green and yellow, turning to white and rose. The most beautiful Coleus introduced in some years. Each, 50c.; doz., \$5.00.

CORSAIR.—Center of leaves white densely spotted rose, green margin, heavily spotted maroon and black. Each, 30c.

EMPEROR OF GERMANY.—Heart shaped leaves, black with large rosy pink center. Each, 50c.

FLAME.—Rich rosy red foliage with yellow edge. Style of Queen Victoria. 30c.

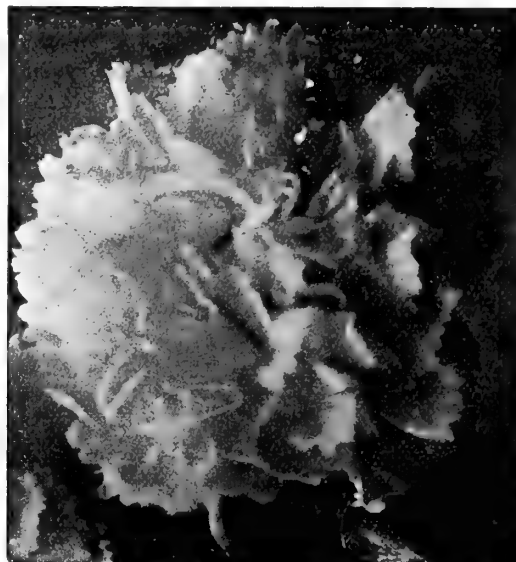
F. P. DILGER.—Bronzy red heavily flaked with yellow, dark maroon and rose, markings constant, Queen Victoria type. Distinct and handsome form, will be found a capital bedder. Each, 50c.; doz., \$5.00.

IDEAL.—Leaves very large, rich maroon red, veins irregularly marked with rose and cream. Raised by A. Lauer. Each, 50c.

ROSE WRIGHT.—A Jewel Coleus, very elegant, no value for bedding, style of Progress but more beautiful, center of leaves white, densely spotted, pale rose, narrow green margin spotted maroon with shades of yellow. Each, 50c.

MARVEL.—Rose color, clouded with dark green, wire edge of yellow; of no value for bedding, very beautiful. Each, 50c.

The Novelty Coleus Set, 10 varieties, April 1st, \$2.50.



MRS. FISCHER.

When Carnations are received place the plants in lukewarm water without removing the moss or paper in which they are wrapped, leave them there for half an hour. Put in pots and keep in shade for several days.

CARNATIONS GENERAL COLLECTION.

BUTTERCUP.—Yellow, striped red. 20c.
CENTURY.—Dwarf habit. Fine rosy carmine.
E. G. HILL.—Red. Large.
F. MANGOLD.—Dark crimson.
GARFIELD.—Crimson. Very large.
GRACE WILDER.—Delicate pink.
HINZE'S WHITE.—Good under glass.
J. J. HARRISON.—White, edged striped red. 20c.
L. L. LAMBORN.—White; very large.
MAY QUEEN.—Pink; elegant variety.
ORIENT.—Deep crimson, shaded maroon.
PORTIA.—Scarlet, early free bloomer.
SILVER SPRAY.—Pure white; very desirable.
TIDAL WAVE.—Bright rosy pink. Dwarf, extraordinary free bloomer, large. Strong healthy habit.
WM SWAYNE.—Pure white. Each, 10c.; doz., \$1.00.

COLEUS, GENERAL COLLECTION.

Sunset. Progress. Peerless.	Indian Chief. Black Diamond. Senator.	Carleton. The Queen. Carnegie.	And many others. very beautiful.
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Each, 10c.; doz., \$1.00.

BEDDING COLEUS.

YELLOW FOLIAGE.

Golden Bedder, Yellow Bird, J. Goode.

RED FOLIAGE.

Vershaefeltii, Crown Prince, Queen Victoria.

Each, 10c.; doz., \$1.00. 100 prices on application.

BLACK FOLIAGE.

Black Bird, Nigger, Hiawatha (variegated Red and Yellow.)

Mahernia Odorata (Honeybells).—Beautiful house plant of easy culture. Half climber, very fragrant. Pretty fern-like foliage covered with little bell-shaped golden flowers. Each, 15c.; doz., \$1.50.

Mesembryanthemum Variegatum.—A pretty little plant with thick fleshy green leaves margined white. Purple flowers. Each, 20c.; doz., \$1.00.

Musa Ensete (Abyssinian Banana).—A grand lawn plant in combination with Cannas, Rhododendrons, etc., or separately; of easiest cultivation in the open ground in summer or for conservatory decoration in winter. Each, 35c.; large plants, \$1.00.

Pomegranate.—Hardy south. Produces lovely flowers and curious fruit. Should be grown north as a pot or tub plant. Cared for like Oleanders. Double Scarlet, very brilliant color. Double white, Double Legrelle double yellow, flaked scarlet. Fine plants, each, 20c.; doz., \$2.00.

Ricinus (Castor Oil Bean).—Elegant plants for center of foliage bed. Only best dark sorts. Plants by express, ready May 1. Each, 25c.; doz., \$2.50.

Ruellia Juncea.—Handsome vase and basket plant. The stems are grass-like, very numerous, covered with coral red flowers and buds. Each, 15c.

Salvia (Sage).—Popular summer and autumn blooming budding plants. **Hoveyi.**—Beautiful dark blue flowers. **Rutilans.**—(Pine-Apple Scented.) Leaves fragrant; rosy purple flowers. **Splendens.**—Scarlet Sage. The most popular variety. Each, 10c.; doz., \$1.00.

Sedum Carneum Variegatum.—Much used for bedding. The small fleshy green leaves are margined with white. Good vase and basket plant. Each, 10c.; doz., \$1.00.

Smitax.—Well known climber, easy growth. Each, 15c.; doz., \$1.50.

Pansies.—We grow an immense quantity of Pansy plants each season of our Premium and International strains including the finest varieties in cultivation. As we have given special attention to the selection of the seed the plants offered can be relied on as of superior merit. Pansies should always be sent by express. Per dozen, NOT PREPAID, 60c.; 50 for \$2.00; 100 for \$3.00. **Paris Daisy (Marguerite).**—Favorite for bouquets, white, yellow center, covered with bloom in garden, can be potted to bloom all winter. 10c.



DAYBREAK.



AMERICAN FLAG.

Read about our
Great "Wolfsden"
Collection on
Climbing Rose page.

USE BOWEN
PLANT FOOD
make plants thrive
Directions in every
package. Small
20c. postpaid; large
size, 35c. by mail.

CHRYSANTHEMUMS.

ORPHAN OF SUMMER KINDLY SENT
TO CHEER THE FADING YEAR'S DECLINE
IN ALL THAT PITYING HEAVEN HAS LENT
TO FAIRER PLEDGE OF HOPE THAN THINE.

THEY SMILE THE SCOWL OF WINTER BRAVES,
LAST OF THE BRIGHT-ROBED FLOWERY THAIN,
SOFT SIGHING O'ER THE GARDEN GRAVES,
"FAREWELL! FAREWELL! WE MEET AGAIN!"

No flowers make so brilliant an Autumn show
these; none bloom so freely or show such an
wide variety of fanciful shapes and brilliant
tints of yellows, browns, deep reds, and purest
white, and their ribbon-like petals are twisted,
curled and curved in the most bizarre manner.
Every season records the introduction of some
new type, and the "Chrysanthemum Shows," held
each autumn in nearly every city in the land, con-
firm and increase the great popularity of these
popular flowers. We hope many of our customers
will aim to exhibit some of their flowers and
win, if not at the large shows, then at the
local or church festivals of the autumn. Besides
the "Florist's Set," we have reduced our general
assortment to the best 26, which we call the "Cream of
the Shows." In variety and quality we can safely
promise to do justice to the needs of the most
discerning lover of these flowers.

VAUGHAN'S "FLORIST'S SET"

FOR 1891. READY APRIL 1.

EACON.—(FEWKES). Magnificent full double
creamy white flower with strong stems. The
outer row of petals are tubular and reflexed,
while those nearer the center are incurved with
broad convex tips. The color is very delicate
and pleasing. Winner of the first prize, Silver
Medal, of the Mass. Horticultural Society,
Boston, 1890, for best seedling. Each, \$1.50.

MRS. HENDERSON.—(SPAULDING). Clear
yellow, streaked and splashed with old gold and
reddish purple, making its center a golden
bronze. Extremely large and double. Petals
flat and many toothed, shaped like Elkhorn.
Plant of strong constitution and very tall grower.
Medal of excellence at American Institute, New
York, Certificate at Indianapolis. Each, \$1.00.

MRS. JAMES.—(W. K. HARRIS). White,
with pale pink tint; incurving, very large and
full, almost globular. Extra fine. Each, \$1.50.

C. VAUGHAN.—(THORPE). Richest plum
crimson without any shade of purple. Flowers
reflexed; very large, strong, stiff stems. This is a really beauti-
ful and distinct colored variety. Each, \$1.00.

MANDANUS.—(PITCHER & MANDAL). Strong stems, free grower.
Pure white petals of good substance, a perfectly double flower
of large size. Each, \$1.00.

MRS. A. ROGERS.—(SIEBRECHT). A rich golden yellow;
incurved; form of flower perfect, each bloom a bouquet. Has
produced flowers over 9 inches in diameter. Strong vigorous
grower, season medium; prize at Indianapolis. Each, \$1.50.

MRS. BOEHMER.—(HENDERSON). Color an exquisite shade
of silvery pink with deep rose on the inside of petals. These
curve gracefully inward and have the same wonderful hair like
growth on them as those on Mrs. Alpheus Hardy. This soft
feathery growth alluded to suggested the name of a new race
of Chrysanthemums styled Ostrich Plume. Its flowers are
immense, borne on strong stiff stems. Each, 60c.

REMONT.—(FEWKES). Clear lemon chrome, very distinct and
pure in color, incurved, flower of good form, long stems. Wheeler
style of petals, but more double. A fine flower. Each, \$1.00.

ARGENT.—(SHENANDOAH) (H. SARMAN, Phila.) Brilliant
crimson, spatulated petals, bright yellow in center, full, perfect
form, stout erect stems; very striking, unique; awarded Silver
Medal by Pennsylvania Horticultural Society. Each, \$2.00.

WABAN.—(FEWKES). Pink; very large full flower with stiff
stems, after the style of Robert Crawford but more double,
deeper in color and much longer and broader petals, the outer
of which reflex; those of the center incurve, making a superb
show bloom. See illustration. Each, \$1.00.

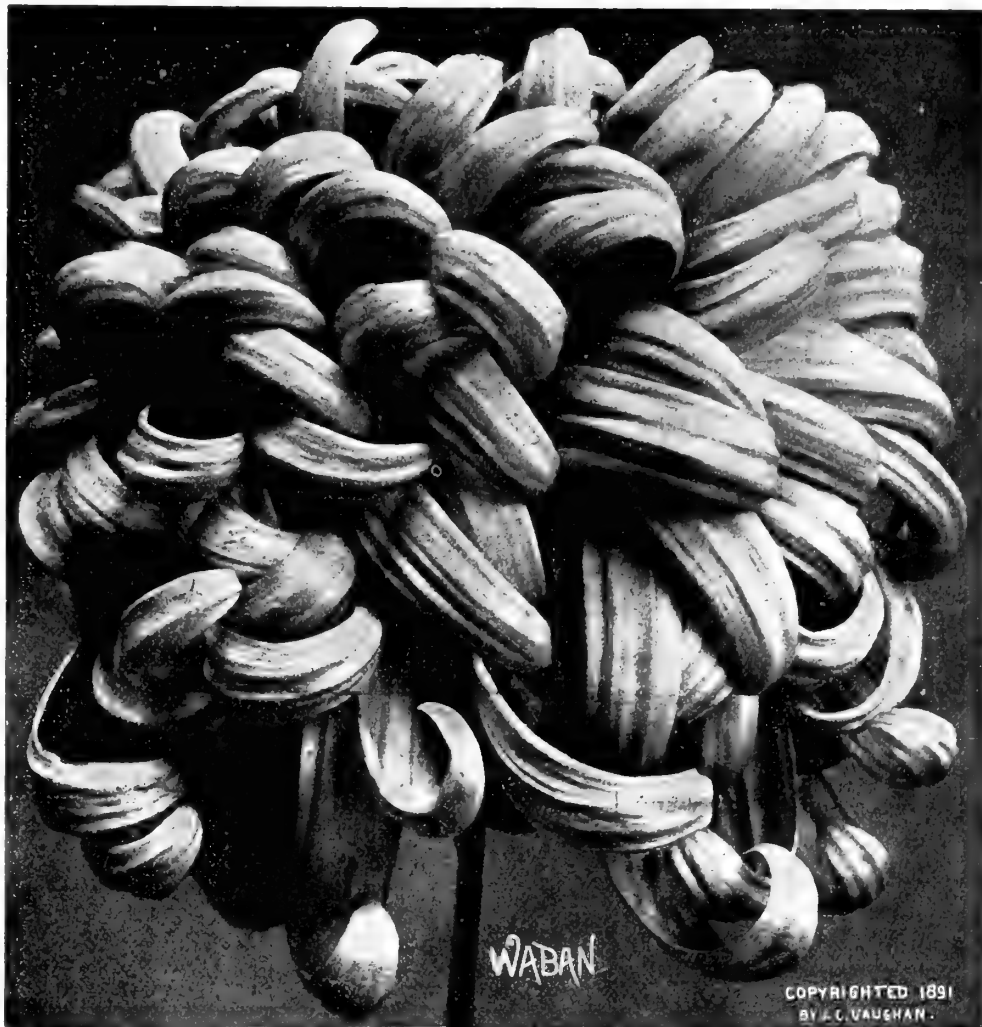
Price, FLORIST'S SET of 10 for \$7.50.

OTHER NOVELTIES OF 1891.

MARY MORAN.—The flower is a perfect white ball of good size, incurved,
borne upon long stems. See our illustration, taken from a
photo of a plant exhibited by us at Chicago Chrysanthemum
Show. Plant of sturdy habit, season medium early. Especially
desirable for all amateurs as a grand pot plant. Each, 35c.

MRS. J. L. CHILDS.—Flowers large, double, 5 to 6 inches
in diameter, borne on long stems, color pure white changing to
slush, petals broad and having-like. The flower, when fully
developed, forms a regular globe. Strong grower. Each, 40c.

MRS. HARTWIG.—(THORPE). A rich deep crimson, brighter
than Cullinford. A No. 1. One of the very best crimson
sorts. Each, \$1.50.



MARY MORAN.—(THORPE).
Brilliant large yellow with strap-
like petals, center erect, large
flowers on stiff foot stalks. \$1.00

GOLDEN ALPHA. A fine yellow
blooming in October, fine for cut
flowers. Its earliness makes it
specially desirable. Each, 35c.

N. B.—In case we are sold out
of any of the kinds of our "Florist's
Set," we shall substitute some of
"Novelties of 1891" to make the ten.



PEERLESS COLLECTION.—One each of above 12, and one plant, L. Boehmer, making a lucky 13,
with essay on Chrysanthemum culture, all for \$3.00. The best offer in the country this season.

✧ PEERLESS COLLECTION. ✧

Unexcelled in style and quality by any similar set in this country

ADA SPAULDING.—Peach pink, incurved, double to the center,
broad, wide petals. Unexcelled. Each, 35c.

FLORA McDONALD.—Creamy white, incurved Chinese, beautiful
form, most attractive of its color and section. Each, 50c.

H. E. WEIDNER. Our specialty of 1890. Unquestionably the
best yellow. Mr. W. K. Harris rightly says: "It is the finest
lemon yellow in cultivation, a fine free grower, the form, build
and make up of the flower is a model for the future." Each, 50c.

MRS. ALPHEUS HARDY.—THE WHITE OSTRICH PLUME
CHRYSANTHEMUM, so widely advertised last year. Pure white,
loosely incurved showing the back of petals which are covered
with a hair-like growth, novel and startling in effect. Each, 25c.

MRS. J. T. EMLIN.—Deep blood red on upper surface of petals,
under side of old gold, large incurved flower of fine shape.
Each, 35c.

LILIAN B. BIRD. Shrimp pink, long tubular petals of varying
length, double to the center, the largest and most distinct of its
style, came in the same set with Mrs. A. Hardy. Each, 25c.

E. MOLYNEUX.—Rich chestnut crimson, back of petals gold
color, incurved. A splendid flower. Each, 35c.

E. AUDIGUIER.—Rich purple, shaded crimson, of petals more
or less twisted, high, full center, very distinct. Each, 35c.

MRS. FRANK CLINTON.—Pale silvery yellow, broad flat petals,
incurved, a very free bloomer; a Philadelphia prize variety of
last year. Each, 35c.

MRS. J. L. CHILDS.—White as snow, round as a ball, incurved
long stems, strong vigorous grower, late bloomer. Each, 40c.

MARVEL.—White with large maroon spot in center, probably
the most distinct Chrysanthemum ever introduced, a great
acquisition. Each, 50c.

ADVANCE.—Deep violet pink, large well formed flowers of
Japanese type. A grand variety. Each, 35c.



BEST 26 CHRYSANTHEMUMS, "CREAM OF THE SHOWS."

THE "CREAM OF THE SHOWS" COLLECTION, 26 PLANTS, FOR \$7.00.

H. E. Weidner, golden yellow, 50c.
 Flora McDonald, creamy white, 50c.
 John Lane, deep rose, 50c.
 W. H. Lincoln, yellow, 35c.
 Mrs. F. Thompson, pink and white, 20c.
 Mrs. Fottler, clear rose, 25c.
 Adirondack, white, incurving, 35c.
 Violet Rose, rosy pink, 35c.
 Snowball, (Mrs. S. HUMPHREY'S), late, white, very large and full, 20c.

Rohallion, chrome yellow, 35c.
 Mrs. Minnie Wannamaker, silvery white, dwarf habit, incurving, 50c.
 Shasta, tubular petals, white, 35c.
 Excellent, mermet pink, 35c.
 L. B. Bird, tubular, shell pink, 35c.
 L. Canning, white, 20c.
 P. B. Meade, tubular, yellow, 35c.
 Kioto, golden yellow, 20c.

R. Bottomly, white, 20c.
 G. F. Moseman, crimson, 35c.
 T. C. Price, pale pink, 20c.
 Mr. Bunn, globular, fine yellow, 35c.
 Cullingfordi, crimson, 25c.
 Miss Mary Wheeler, pearly white, 35c.
 Mr. H. Cannell, yellow, 35c.
 Mrs. W. Sargent, yellow, 35c.
 Crown Prince, deep red, 50c.

GENERAL COLLECTION.

Price of any of the following, (except where noted), each, 10c.; doz., \$1.00, prepaid.

Boule de Neige, white, early.
 Clara Reiman, pink, 35c.
 Christmas Eve, white, late, 15c.
 Domination, white.
 Grandiflorum, yellow.
 George Pratt, orange red.
 Gorgeous, yellow, early.
 Harvest Queen, white, early, 15c.
 J. Collins, coppery bronze, 15c.
 J. Thorpe, deep lake, 20c.
 La Neige, white, early.
 Lady Mathewson, creamy white, 15c.
 Lucrece, white, late.

Llewellyn, red, reverse gold, 35c.
 Leopard, rose, spotted white, 25c.
 Mabel Douglas, yellow, early.
 Mountain of Snow, white, late.
 Mrs. E. W. Clark, plum purple, 15c.
 Mrs. Irving Clark, pearl white, 15c.
 Mrs. Elliott, (GOLD), yellow.
 M. Cypere, white, tinted, extra, 15c.
 Mrs. A. C. Burpee, bronze yellow, 15c.
 October Beauty, pink, early.
 Pelican, white, late, 15c.
 Pink Perfection, pearl pink.
 Phœbus, deep yellow.

Puritan, blush white.
 Pres. Arthur, deep rose, tubular petals.
 Robert Crawford, pink, very large.
 Rose Queen, rose, 35c.
 Sunnyside, cream, tinted pink.
 Snowflake, white, semi-double, 25c.
 Tokio, red.
 Yellow Eagle, golden yellow.



EARLY FLOWERING AND ANEMONE CHRYSANTHEMUMS.

SMALL FLOWERED, EXTREMELY PRETTY, WITH FEW EXCEPTIONS FLOWERING EARLY, OFTEN BEFORE FROST.

Black Douglas, dark crimson, fringed. M. Neville, salmon, passing to rosy white, each, 15c.
 Canary, yellow, early.
 Frederick Pele, red tipped, light gold.
 Matador, red, good form.
 Marabout, white, elegantly fringed.
 Mary Edd, white, large.
 Mlle. Elise Dordon, red and white, each, 15c.

Timbale d'Argent, Anemone; pure white, the short inner petals surrounded by several rows of long guard petals.
 Whirlwind, Anemone; white, later than Timbale d'Argent.
 White Wings, purest white.

Each 10c., except where noted.

THE "OSTRICH PLUME" CHRYSANTHEMUMS.

Mrs. A. Hardy, see special description. Louis Boehmer, see special description.
 These Two Wonderful Varieties for 75c.

SEEDLING CHRYSANTHEMUM PLANTS.

Grown from our American Hybridized Seed. See page 42 of flower seed list. This seed being the result of careful selection and skillful crossing of the most perfectly grown plants and distinct forms of this grand flower, we may confidently expect a fair percentage to produce fine varieties with here and there a genuine novelty worth money.

We wish to hear from every buyer of these seeds or seedling plants next November. We are buyers of Chrysanthemum Novelties. Try your success.

Fine young plants, about May 1st, doz., \$2.00; per 100, \$12.00.



MRS. A. ROGERS.



MRS. E. G. HILL.

❖ ❖ FUCHSIAS. ❖ ❖

NEW FRENCH FUCHSIA.

M. JAULE.—Single. Flowers of medium size, corolla lavender, tube and sepals red. This variety produces double the quantity of flowers, blooms earlier than any other sort. It is a very beautiful grower, branching finely, and forms a large globular bush, quite different from most other sorts, very easily grown. Each, 25c.; doz., \$2 50.

DOUBLE WHITE FUCHSIAS.

MRS. E. G. HILL.—Flowers are of immense size, tube and sepals short, rich reddish crimson, corolla very large, very double and paper white, not flesh color, as in most varieties. Its habit is a marvel of health and vigor, foliage large, growth neat, upright, bushy and symmetrical, and it is a constant bloomer. Each, 15c.

Lamenais, White Giant, Ville de Lyon, Rosaine's Patrie. Each, 15c.

DOUBLE RED AND VIOLET FUCHSIAS.

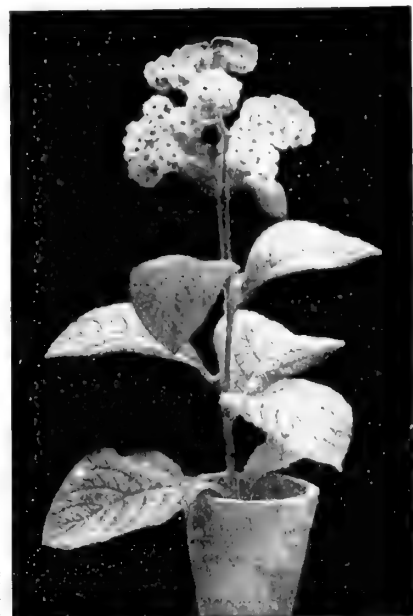
Pres. F. Gunther, Avalanche, President Grevy, Joseph Rosain, Sapley Freres, Phenomenal, largest Fuchsia grown, 20c. Cormorant, Nancy, Red Wing. Except noted, each, 10c.; doz., \$1 00.

SINGLE FUCHSIAS.

Annie Earle.—Sepals waxy white, corolla clear carmine. **Black Prince.** Sepals bright carmine, corolla mauve pink. **Elysee.**—Sepals coral red, corolla violet. **Lovely.**—Tube and sepals white, corolla crimson. **Nellie.** Early; sepals creamy white, corolla flesh, shaded mauve. **Talma.**—Tube short, sepals rose, corolla violet and vermillion. Price each, 10c.; doz., \$1 00.

HELIOTROPE.

Fleur d' Ete.—Growth upright and very strong. Large trusses of fragrant white flowers. Each, 35c. **Albert Delaux.**—Variegated foliage, flowers purple, very fragrant. **Chieftain.**—Blue, shaded violet; the best. **White Lady.**—White, very large trusses. Each, 10c.; doz., \$1 00.



HELIOTROPE, FLEUR D'ETE.

❖ ❖ FIGS. (INDIA RUBBER TREE.) ❖ ❖

LASTICA.—This well known decorative house plant has attained great renewed popularity the past year. The large, leathery, shining green leaves endure the dry air of a living room as well or better than any other plant, hence their universal popularity. Plants 1 ft. high, each, 50c.; 2 ft., \$1 50.; 4 ft., \$3 00.

LASTICA VARIEGATA.—The thick glossy leaves are margined and flaked with creamy white, very beautiful, rare and choice. Plants 2 ft. high, \$6 50.

❖ ❖ GERANIUMS. ❖ ❖

NOVELTIES.

NEW ZONAL GERANIUM, SOUV. DE MIRANDE.—The finest new Geranium of recent years, entirely distinct and novel. It has round florets, upper petals cream white, with a distinct rosy pink border; lower petals salmon rose, streaked with pure white, extremely free-flowering and produces fine trusses of magnificent blooms. Foliage good and habit first-class. Price, each, 25c.

ACQUES CALLOT.—Novelty of this season, quite similar to S. de Mirande, possibly a little larger flowers. Each, 35c.

ADAM POIRIER.—Single. Enormous truss, rich violet rose color, upper petals marked with white. Each, 35c.

ANACHE DE NANCY.—Single. Salmon, striped white, distinct. Each, 50c.

THELETE.—Single. Enormous trusses, flowers of largest size, brilliant scarlet. Each, 35c.

WILHELM PFITZER.—Double. Rich salmon, wire edge of white, distinct and very fine. Each, 35c.

GERANIUMS—Double.

Baron de Schleinitz.—Pale salmon. **Bonnat.**—Rich carmine rose. **Dr. Chaunier.**—Crimson, purple tint.

De Lacpede.—Very pale pink.

Hoire de France.—White salmon

enter. **Golden Dawn.**—Scarlet,

range tint. **Heteranthe.**—Bright

carlet, very large. **James Vick.**—

salmon, fine bloomer. **La**

Favorite.—Finest white, each

30c. **Louis Filhol.**—Light

scarlet. **La Vienne.**—White.

Mr. Presse.—Fine salmon.

M. Caro.—Pale pink, rose tint.

Mad. Dupont.—Scarlet.

Mad. Guilbert.—Rich pink,

fine truss. **Mad. de Benna-**

ville.—Rosy red. **Mad. Max**

Guigler.—Pink, white eye.

M. Janis.—White, salmon

enter. **Paul Arene.**—Pure

white, smooth round flowers,

each, 35c. **Queen of Fairies.**—

Salmon, light edge. **S. A.**

Nutt.—Crimson scarlet. **Tun-**

blase.—Orange scarlet. **White**

Swan.—White. Each, 10c.;

doz., \$1 00.; per 100, \$6 00.

GERANIUMS—Single.

Chancelor.—Crimson, par-

ple tinted. **Comtesse de**

Pot.—Pale salmon light edges.

Ebluisante.—Orange scarlet.

Pournaise.—Light scarlet.

L. Virissel.—Rich salmon.

L. Immortel.—Rose pink.

La Torreau.—Flesh pink.

Leon Perrault.—Scarlet, large truss.

L'Abbe

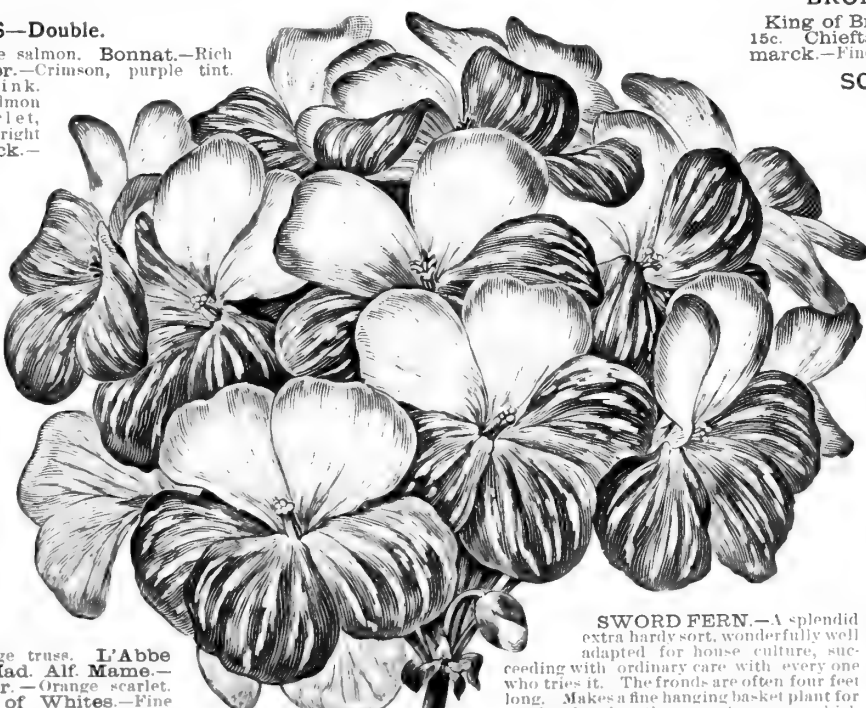
Bourgeon.—Light scarlet. **Mad. Alf. Mame.**—

Light scarlet, large. **Mine d' Or.**—Orange scarlet.

Perle.—Pure white. **Queen of Whites.**—Fine

white. **Trophee.**—Rosy pink. Each, 10c.;

per 100, \$1 00.



SOUVENIR DE MIRANDE.

❖ ❖ IVY GERANIUMS—DOUBLE. ❖ ❖

The double Ivy Geraniums are remarkably popular at present, and deservedly, for the new hybrids produced by the French growers are marvels of beauty and in richness of color surpass all geraniums.

NOVELTY.

CARDINAL LAVIGERIE.—Pale orange red, large, fine truss, full double. 35c.

GENERAL COLLECTION.

Alice Crousse.—Flowers very large, double as a rose; clear violet amaranth, deeper than any other variety. Each, 25c. **Anna Pfitzer.**—Semi-double, rosy salmon. **Camille Flammarion.**—Rosy pink. **De Quatrefoies.**—Violet purple. **Florens.**—Pink. **Galilee.**—Large truss, rose. **H. Martin.**—Rosy red. **Jeanne d' Arc.**—The only double white, each, 20c. **Josephine Hohenzollern.**—Rich crimson. **L'Elegant.**—Leaves margined white, very pretty, vase and basket plant, each, 20c. **Mon. Premier.**—Rosy Pink. **Souv. de Charles Turner.**—Large truss and flowers, light red; the finest of the English Ivy Geraniums, each, 35c. Except noted, each, 10c.

SILVER LEAVED GERANIUMS.

Silver Cord.—Good variety, 15c. **Mad. Sallerol.**—Silver margin, very pretty. 10c.; doz., \$1 00. **Mountain of Snow.**—Very popular, 10c.

BRONZE GERANIUMS.

King of Bronzes.—Yellow with chocolate, 15c. **Chieftain.**—Very showy, 15c. **Bismarck.**—Fine bedder, 15c.

SCENTED GERANIUMS.

Apple-Scented.—Exquisite fragrance 20c. **Rose.**—Well-known, fine foliage 10c.



SWORD FERN.

SWORD FERN.—A splendid extra hardy sort, wonderfully well adapted for house culture, succeeding with ordinary care with every one who tries it. The fronds are often four feet long. Makes a fine hanging basket plant for window bracket, throwing out runners which quickly make new plants. Each, 25c.

♦ PALMS. ♦

NOW the most fashionable decorative house and window plants. They require but little care, no more than a Geranium, beyond sponging the leaves once or twice a week. Customers are advised to buy the larger plants. The effect is immediate, and if placed in a handsome Jardinier, no more beautiful or ornamental plants can be found. In season for shipping all the year around. An elegant birthday present for a plant-loving friend.

ARECA LUTESCENS.—Graceful, arching leaves, elegant; large plants, 4 feet high. Each, \$8.00.

CHAMÆROPS EXCELSA.—Leaves much divided, very hardy, rapid growth, easy culture. Each, 35c.

COCUS WEDDELLIANA.—A beautiful dwarf and fern-like species. Each, 75c.

CORYPHA AUSTRALIS.—Upright growth; handsome table ornament. Each, 35c. to \$1.00.

CYCAS REVOLUTA.—(Sago Palm).—Most curious and showy of all Palms. Each, \$1.00, \$2.50 and \$5.00.

KENTIAS.—One of the most reliable Palms for the house.

K. Belmoreana.—Beautiful foliage. \$1.50, \$3.00, \$7.00.

K. Forsteriana.—Graceful bright green foliage. Each \$1.00.

LATANIA BORBONICA.—(Chinese Fan Palm).—The most desirable for general cultivation. Each, 50c., \$1.00 and \$2.00.

PECEIX RECLINATA.—Arching, pinnate leaves, quickly makes large showy decorative plants; truly beautiful and rare. Each, \$2.00.

P. Rupicola. " 2.50.

P. Sandereana. " 2.50.

RHAPIS FLABELLIFORMIS.—Handsome (see cut). \$2.00-\$5.00.

SEAFORTHIA ELEGANS.—Rapid grower; soon makes fine specimen plants. Each, 75c.

SABAL PALM.—New; dwarf, spreading leaves much divided; small plants. Each, 30c.

SABAL PALM CUBA.—Similar to preceding; leaves bluish green; handsome. Each, 30c.

PANDANUS.—The Screw Pine.—Utilis.—Long, grass-like, arching leaves, arranged in a spiral manner on the stem. Young plants are used for centers in vases and baskets; older plants make elegant specimens for house and conservatory decoration. Each, 35c.

P. VEITCHI.—Like the former, except leaves are margined and striped white. Each, \$1.00, \$3.00, and \$5.00.

PETUNIAS.—Double; all colors, variegated, pure white, purplish red. Each, 10c.; dozen, \$1.00.

PETUNIAS.—Single (May 1); showy, effective and cheap; raised from large flowering fringed seed. Doz., 60c.; 100 by express, purchaser paying charges, \$3.00.

PRIMULA OBCONICA.—Everblooming Primrose, producing large trusses of pretty white or lilac tinted flowers nearly the year around. You should have one. Each, 25c.

PELARGONIUM.—(Lady Washington Geranium).—Several varieties, with highly colored flowers. Each, 25c.

PILEA MUSCOSA.—(Artillery Plant).—Easily grown, a house or bedding plant. The little branches are densely studded with very small flowers. After a dry spell, if well watered, and tops sprinkled, the little buds will burst open, discharging a light cloud of white pollen dust. Very instructive and amusing. Each, 15c.; doz., \$1.50.

PLUMBAGO CAPENSIS.—Large clusters of open flowers of the most beautiful light blue shade. Each, 15c.

PLUMBAGO CAPENSIS ALBA.—Like above, but pure white, free blooming and strong. Each, 15c.



FICUS ELASTICA.

RHAPIS
FLABELLIFORMIS.

ARECA.

BOWKER'S PLANT FOOD.

This is a most useful fertilizer for all kinds of plants grown in pots. It produces a rapid and vigorous growth. Directions in each package. Small package, 20c.; large size, 50c., by mail.

OUR

♦ WOLFSDEN ♦ NOVELTY COLLECTION FOR 1891,

Contains the

BEST AND MOST NEW PLANTS AND BULBS

FOR ONE DOLLAR,

(\$1.00)

OFFERED IN AMERICA,

as it did last year.

SEE PAGE 77.

TIGRIDIAS.—Desirable bulbous flowers that may be treated the same as Gladioli; they have large showy shell-like flowers.

Conchiflora.—Yellow, dark spots. 7c.; 4 for 25c.

Grandiflora Alba.—Pearly white, large flowers.

Each, 10c.; 3 for 25c.

Pavonia.—Red, yellow spots. Each, 7c.; 4 for 25c.

WHITE WATER LILY.—(Nymphaea odorata).

Perfectly hardy and requiring no cultivation; plant in a sluggish stream, or in a tub, 18 inches to 2 feet deep, cover the root with about 3 inches of rich loam and fill with water; store the tub in the cellar over winter to prevent freezing. Strong roots, prepaid, each, 35c.; not prepaid, each, 25c.; doz., \$2.50.

AMARYLLIS REGINA.—Brilliant orange scarlet. One of the best winter bloomers; large, well-opened flower; large, strong bulbs. Each, \$1.00.

ZEPHYRANTHES SULPHUREA.—The Yellow Amaryllis. —A color heretofore unknown among these bulbs, and therefore it will be extensively grown; it is entirely new here, and yet quite expensive; superb flowers. Each, 25c.

For a more complete list of Amaryllis with description and prices, see page 58.

AGAVE.—(Century Plant).—This ornamental plant was introduced from South America in 1640, and has become very popular as an ornamental plant the world over. It was once thought that the plant would not bloom until a hundred years old; hence, the name Century Plant. But that idea has been proved erroneous, as plants 10 to 15 years old have been made to bloom when given plenty of heat. The flower stalk is immense—many feet in height—and is covered with yellowish green flowers. Each, 75c. and \$1.00.

TRADESCANTIA MULTICOLOR.—(Wandering Jew).—Leaves striped and variegated with white, pink and green; the handsomest of the genus. Each, 10c.

TROPEOLUM HEDERAPOLIUM.—(The Ivy Leafed).—New, an extremely handsome variety of this popular family. The flowers are a rich orange yellow, each petal heavily blotched with maroon, a pretty contrast; the petals are also heavily notched. A quick easy grower, always in bloom; a gem for vases, large stands and basket work. Each, 15c.; doz., \$1.50.

T. DARKNESS.—A novelty; the plant is similar in every way to the single varieties, but is covered the season through with large double rose-like flowers of a dark maroon color. It must be seen to be appreciated. It is a charming plant for bedding, and the flowers are fine for bouquets, growing 2 to 3½ inches in diameter, and of the richest color. Each, 25c.; doz., \$2.50.

VERBENAS.—Choice named varieties in whites, scarlets, pink and purples. Each, 10c.; doz., 75c.

VIOLETS.—Sweet scented English sorts. Double White, Double Blue, and Single Blue. Each, 15c.; doz., \$1.50.

WISTARIA.—A magnificent climber, with handsome luxuriant foliage, bearing long racemes of fragrant flowers, which cover the entire plant during the blooming season in May and June. It grows rapidly when well established, and will reach almost any height. **Wistaria Sinensis.**—Deep lilac flowers. Each, 25c. **Sinensis Alba.**—White flowers in immense clusters. Each, 35c.

For other Climbing Plants see pages 60 and 61.

THE PARLOR COLLECTION.

DECORATIVE HOUSE PLANTS.

The handsome parlor windows of our best town and city residences are no longer quite complete unless decorated with a beautiful living plant, and for the past few months Palms and Rubber Trees (Ficus) have grown wonderfully in public favor. In Chicago, to-day, thousands of homes contain one or more of this class of dust-proof, gas-proof, heat-resisting plants. They last longer with less care than any of the softer wooded kinds, and are always highly decorative.

Purchasers are advised to buy first size plants; the second size are necessarily small.

OTAHEITE ORANGE.—Dwarf orange; sweetest flower; in fruit, ornamental.

DRACÆNA INDIVISA.—Long grass-like leaves; handsome table plant.

FICUS ELASTICA.—Rubber Tree; beautiful glossy leaves; best of house plants.

LATANIA BORBONICA.—Fan Palm; elegant and spreading fan-like leaves.

ALOCASIA ARBOREA.—Tree Caladium; large, leathery green leaves; showy.

First size, by express, purchaser paying charges, \$3.00.

Second size, by mail, postpaid, \$1.50.

♦ CACTUS. ♦

These curious and odd plants require absolutely no care. They grow for months in the house or garden without watering and increase in value yearly. No wonder they have become all the rage, for their flowers which are of exquisite beauty and fragrance and their very curious forms render them exceedingly interesting. During winter they require scarcely any water. We send by mail 10 Curious Cacti, new or odd and desirable, invariably our choice, each distinctly named, for \$1.00. They will please you.

♦ OLD MAN CACTUS. ♦

The cut gives a good idea of the plant, which, as will be seen, is covered with very long, silky white hairs, often drooping below the rim of the pot, and giving it the appearance of the venerable head of an aged person. Whoever sees it cannot help admiring it. First size, each, 75c.; extra size \$1.00.



OLD MAN'S HEAD CACTUS.

ROSE DEPARTMENT.

In choosing a location for our Greenhouses we had especially in view requisite ROSE SOIL, suitable, not only to produce the young plants for shipping and mailing, but insure best success with the average planter when received. This we found at Western Springs, soil from this section being sold and shipped to Chicago florists for rose houses. For notes on culture, insects, etc., see last page of this department.

Roses by Mail.—Unpack immediately. Do not expose roots an instant, but place at once in a shallow dish of tepid water. Towards evening carefully plant in good, mellow soil, thoroughly firming the moist earth around the roots. Shade from the mid-day sun just after planting.

Roses by Express are usually packed with part or all of the earth adhering to each plant; they invariably arrive in good order. If the balls of earth are dry, add carefully in a pail of water for a moment, then plant, firming the soil thoroughly around the balls. Shade is not necessary.

Hardy Roses, large plants by Express.—These plants are of in pots, being too large to handle conveniently in that way. When packed ready for shipping the weight is comparatively trifling, and expressage is very light on these fine plants.

Special Mention.—We call special attention to OUR FIRST SIZE ROSES as being best for general planting. They are of one and two years' growth, splendidly rooted, more or less branched, and in best condition for the rapid and vigorous growth which must produce large buds, and an abundant crop of flowers. We quote throughout the list, two sizes of plants; a large size to be shipped by express at purchaser's expense, and a smaller size which we prepay by mail. Please specify size when ordering.

NEW EVERBLOOMING ROSES.

These are the very latest novelties, procured at heavy expense from various sources, chiefly France, England and Germany. They have been thoroughly tested in our Greenhouses at Western Springs the past season. Rose connoisseurs, and others, may safely purchase from this collection and be assured of getting something new and particularly desirable in Roses.

"CREAM OF THE NOVELTIES" COLLECTION.

WHITE LA FRANCE.—H. T. (A. Quinnoisseau). Identical in every respect with La France, except color, which may be described as a white, faintly tinted shell pink. Each, 50c. Large plants, \$1.00.

GLOIRE DE CHIVRES.—(Glory of Copper). Tea. Rich golden yellow, coppery red; long pointed buds of handsome style. Each, 35c.

J. B. VARRONE.—Tea. Fresh, lively rose color, sometimes in clusters. Buds of fine form. Each, 35c.

MADELINE D' AOST.—Tea. Deep copper color, edge of petals white. Medium size. A gem. Each, 35c.

ETOILE D'OR.—(See cut). A Polyantha. Lemon yellow, pale edges, flowers medium size but produced in greatest abundance. Each, 35c.; doz., \$3.00.

MADAM A. DE TARLE.—Tea. White, tinted canary. Flowers cup-shaped. Seedling of Comtesse de Labarthe, with the same habit of throwing up strong shoots, terminating in long clusters of fine flowers. Each, 35c.

2 NEW EVERBLOOMING CLIMBERS.

CLIMBING NIPHETOS.—A sport of the well-known variety Niphetos. Growth very vigorous, branches attaining a length of 20 feet. Flowers similar to the old variety. Each, 30c.

CLIMBING PERLE DES JARDINS.—A climbing variety of the well-known Perle; blooms similar, considered a great acquisition for conservatories and the open air for the South and Pacific Coast. Each, 60c. The two New Climbers, 75c.

ADDITIONAL NOVELTIES IN ROSES.

Kaiserin Frederick.—Tea. Climber. Style of Glorie de Dijon. Salmon pink flowers, very double. Each, 35c.

Georges Farber.—Tea. Small flowers; brilliant crimson; prolific bloomer. Each, 25c. **Wilhelm Liffa.**—H. T. Crimson. Shy bloomer. 35c.

Dulce Bella.—Tea. Small flowers. Salmon tinted rose. Each, 35c.

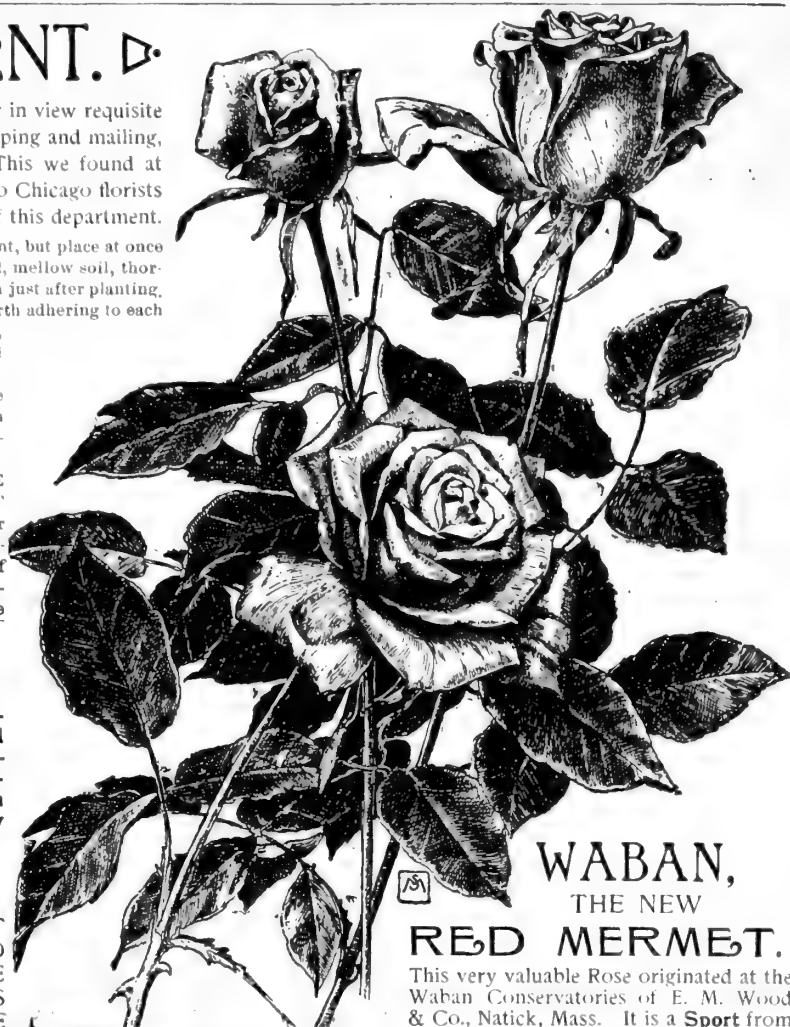
Mad. C. F. Worth.—Rugosa Hybrid. Purplish red. Each, 35c.

La France of '89.—Climber. Shy bloomer here, very large. Ea., 50c.

Sou. de Legros.—Tea. Crimson shaded purple, large, double. Ea., 25c.

Mad. H. Montefiore.—H. T. Cupped, shell pink, habit dwarf. Ea., 50c.

SEE OUR WOLFSDEN NOVELTY COLLECTION, PAGE 77.



WABAN, THE NEW RED MERMET.

This very valuable Rose originated at the Waban Conservatories of E. M. Wood & Co., Natick, Mass. It is a Sport from Catherine Mermet, and identical with that variety in every characteristic excepting color, which is a rich, deep, bright pink. It sustains the same relation to its parent as Duchess of Albany does to La France. The only objection to the Catherine Mermet is its frequently pale, insipid color in cloudy weather. Experience has shown that the Waban retains its deep, rich color in all kinds of weather. It will, without doubt, prove to be as valuable as the White Rose Bride, which is also a Sport from the same magnificent variety. It has already received the

* * * SILVER MEDAL * * *

of the Massachusetts Horticultural Society, of the Pennsylvania Horticultural Society, and Certificate of Merit from each of the Societies in this country and Canada, where it has been shown. We are special wholesale agents for Illinois, Wisconsin, Minnesota, and all States and Territories west of Mississippi river, Canadian Territory west of Ontario, and to our customers ordering from this catalogue we send everywhere. Ready for distribution on April 15, 1891. Orders booked now will be filled in strict rotation.

Price, extra plants from 2½ inch pots, each \$1.25; doz., \$10.00.
From 4 inch pots, each, \$1.50; doz., \$15.00.

ETOILE D'OR.
[Star of Gold.]

* * * 3 HARDY IRISH ROSES. * * *

RAISED BY A. DICKSON & SONS, NEWTOWNARDS, CO. DOWN, IRELAND.

These gentlemen have originated some of the finest roses known, we therefore have confidence in offering their three latest varieties.

J. W. GIRDLESTONE.—Color, brilliant vermillion; base of petal, shaded lake. The blooms are of immense size, perfectly symmetrical in form, and very highly perturbed. A profuse and continual bloomer. Each, \$1.00.

MR. JAMES BROWNLOW.—A cross between Marquis de Castellane and Paul Neron. Color, brilliant carmine; petals of immense substance, large round and smooth. It is a magnificent variety. Each, \$1.00.

JEANNIE DICKSON.—Color, rosy pink, the entire margin of petals being distinctly edged with silvery pink. The flowers are very large, full, with a high centre. Blooms continuously. Each, \$1.50.

Large plants only. The set of three varieties. \$3.00.

❖ NEW EVERBLOOMING. ❖ ROSES. ❖ CLOTHILDE SOUPERT. ❖

OF SPECIAL MERIT.

See colored plate front cover.

MAD. PIERRE GUILLOT.—Tea. Two years ago last summer Messrs. Guillot & Fils, the celebrated French rosarians, showed us the first flowers of this beautiful new rose, at their gardens in Lyons, which they had given the name of the wife of the eldest son, and which they believed was destined to take very high rank. It was too small then to decide as to its merits, but two years' trial have proved it to be more than they claimed for it. We pronounce it the most showy and attractive tea rose of recent introduction. The growth is fairly vigorous, producing numerous shoots, terminating in buds that for beauty far surpass the famous Tulip rose, Madame de Watteville. The buds are very large, very double, creamy white, each petal heavily bordered with bright rose. This lovely combination, and the style of bud, was the attraction in new roses exhibited at the Chicago Chrysanthemum show last November. As a cut-flower the color holds well, seems to be more intense under gas light, the white a lemon, the rosy margin a red tint. This rose you should buy this year. Small plants, each, 50c.

MADAME HOSTE.—Tea. One of the most promising roses of recent years. In color it shades from purest white to a clear, pale lemon, the buds are of largest size, sometimes even rivaling the Marechal Niel, full, double and beautiful shape, being elongated much like the Niphetos, vigorous grower. Each, 20c. and 50c.

DUCHESS OF ALBANY.—Hybrid Tea. A sport of La France; in habit of growth, freedom of flowering and style of bud, is exactly similar to La France; color solid deep rose; very fragrant; sells well as a cut flower, perhaps better than La France. A coming rose. Each, 25c. and 50c.

SOUV. DE WOOTON.—Hybrid Tea. It is a good grower, with the general habit of Bon Silene, every shoot bearing a bud; flowers very large, are double, and exquisitely fragrant; color rosy crimson, velvet shading. Each, 25c. and 50c.

The Collection of 4 Varieties:
First size, not prepaid, \$2.00
Second size, by mail, 1.00

❖ POLYANTHA ROSES. ❖

Pretty bedding Roses, which make lovely little flowers, are usually in bloom the whole summer.

Blanche Rebatel.—New. Flowers of the average size, bright rosy red. A real novelty, being the only red Polyantha, and sure to please.

Clothilde Soupert.—See special description.

Gloire des Polyantha.—New, flowers in immense clusters, bright rose. A very vigorous grower. Each, 20c., doz., \$2.00.

Little Pet.—Pure white flowers, above average size.

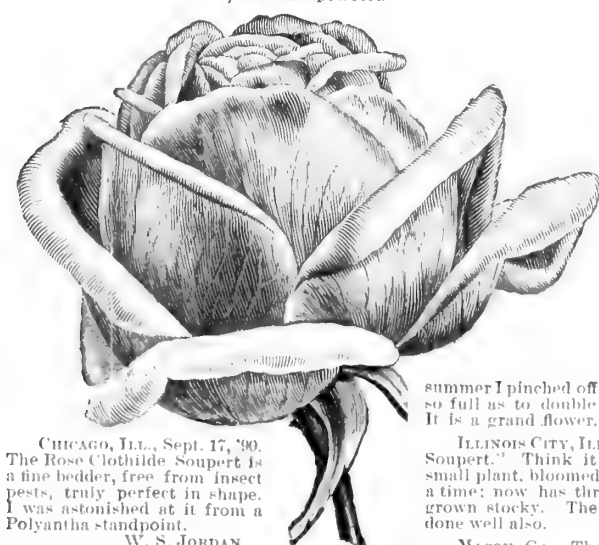
Mignonette.—Light rose, shading to white.

Minutifolia Alba.—New. White, flowers small, always in bloom. We believe this to be the smallest flower. A curiosity. Each, 25c.

Miniature.—White, shaded with pink, small, double and fragrant.

Paquerette.—Flowers snow white, a grand bedder.

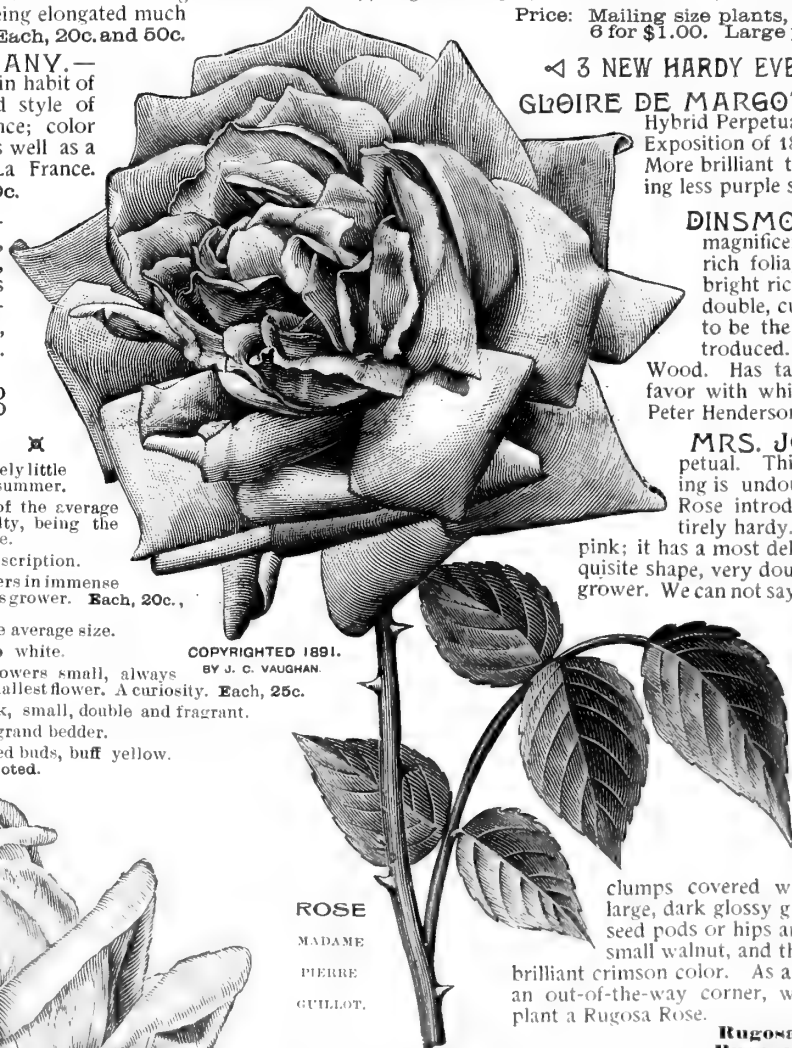
Perle D'Or.—Small, beautifully shaped buds, buff yellow. Each, 15c. except noted.



CHICAGO, ILL., Sept. 17, '90.
The Rose Clothilde Soupert is a fine bedder, free from insect pests, truly perfect in shape. I was astonished at it from a Polyantha standpoint.

W. S. JORDAN.

MADAME HOSTE.



ROSE

MADAME

PIERRE

GUILLOT.

COPYRIGHTED 1891.

BY J. C. VAUGHAN.

St. Louis, Mo., June 5, '90. Clothilde Soupert roses arrived in first rate condition, and are doing finely.
H. J. FILLMORE.

MUSCATINE, IOWA.—I purchased a Clothilde Soupert last spring from you. It was in bud when received, and opened out beautifully; during the summer I pinched off the buds and now it is in bloom again. The flower is so full as to double back to the stem, and the fragrance is exquisite. It is a grand flower.
R. D. BODMAN.

ILLINOIS CITY, ILL., Oct. 22, '90.—I am well pleased with Rose "Clothilde Soupert." Think it worthy to have in all collections of roses. Got one small plant, bloomed two or three times, having from one to three roses at a time; now has three roses and five buds on. Plant healthy and has grown stocky. The other roses obtained from you at same time have done well also.
TEOPHILE HUBER.

MACON, GA.—The roses came in splendid condition, not one sick in the lot. I am well pleased.
D. B. WOODRUFF.

The sale of 30,000 plants of this variety the past year is a splendid guarantee of its popularity. While not a single complaint in regard to it has reached us, we have received many unsolicited testimonials of its merits. A few are printed below.

It is a hybrid of the Tea Rose, Mme. Damaisin and the Polyantha Rose, Mignonette, securing in this manner the strong growth of the Tea class, added to the profuse flowering habit of the Polyantha.

The well-known writer on floral topics, Eben E. Rexford, speaks of it as follows: "In this new variety (Clothilde Soupert), the 'promise' of great possibilities of the Polyantha class has been carried out very satisfactorily. Its flowers are of good size and color, and its fragrance is exquisite; not like that of La France in quantity, but quite as sweet in another way, being more on the Wild Rose or Damask order. It has all the wonderful freedom of bloom peculiar to the older varieties of the Polyantha class, its branches being perfect masses of flowers throughout the greater part of summer. In color it is a soft flesh, deepening to pink in the center, quite double and a good grower; a much better rose for the amateur than any of the Teas, Bourbons or Noisettes, in my opinion, because of its greater vigor, freedom of bloom, and constancy of habit."

Price: Mailing size plants, postpaid, each, 25c.; 6 for \$1.00. Large plants, by express, each, 50c.

❖ 3 NEW HARDY EVERBLOOMING ROSES. ❖

GLOIRE DE MARGOTTIN.—A fine brilliant scarlet Hybrid Perpetual, first known at the Paris Rose Exposition of 1887, sent out by us last year. More brilliant than Genl. Jacqueminot, showing less purple scarlet. Each, 25c. and 50c.

DINSMORE.—Hybrid Perpetual. A magnificent rose, hardy, free, of fine form, rich foliage and rapid growth, color a bright rich crimson, flowers large, very double, cup-shaped; it has proved itself to be the most prolific bloomer yet introduced. Much resembles Mad. Chas. Wood. Has taken high rank from the great favor with which it was regarded by the late Peter Henderson. Each, 25c. and 50c.

MRS. JOHN LAING.—Hybrid Perpetual. This new rose for outdoor planting is undoubtedly the finest new Hybrid Rose introduced for many years, and entirely hardy. Its color is a beautiful soft pink; it has a most delicious fragrance, and is of exquisite shape, very double and of large size; a strong grower. We can not say too much of the rare beauty of this rose. Each, 25c. and 50c.

The 3 Hardy Everblooming
First size, by express, \$1.00
Second size, postpaid, .60

EVERBLOOMING RUGOSA ROSES

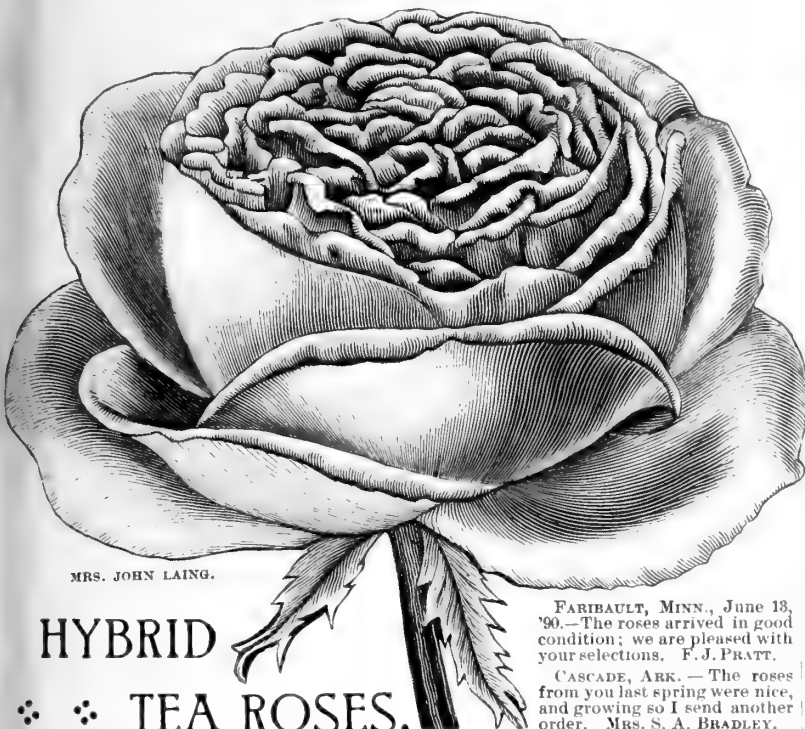
Too much can scarcely be said in praise of these Japanese Roses. They are perfectly hardy, everblooming, and will grow in any kind of soil, sand or muck. They make large clumps covered with the showiest foliage—very large, dark glossy green—of any kind known. The seed pods or hips are in clusters, each as large as a small walnut, and through fall and winter are of brilliant crimson color. As a lawn plant, or for groups to an out-of-the-way corner, where nothing else will grow, plant a Rugosa Rose.

Rugosa Alba.—Pure white, single flowers.
Rugosa Rubra.—Rosy crimson, single flowers. First size, 50c.; second size, 30c.

MARECHAL NEIL.

Large plants of this grand old Climbing Tea, from 7 and 8-in. pots, with stems 8 to 12 feet long, just starting into growth; grand for immediate effect; especially suitable for conservatory planting, and for verandas, trellises in open air in the south. Each, \$4.00.

HYBRID PERPETUAL ROSES.



MRS. JOHN LAING.

HYBRID TEA ROSES.

We have carefully revised the list, discarding all but the very best.

FARIBAUT, MINN., June 18, '90.—The roses arrived in good condition; we are pleased with your selections. F. J. PRATT.

CASCADE, ARK.—The roses from you last spring were nice, and growing so I send another order. MRS. S. A. BRADLEY.

- DR. PASTEUR.**—Flowers finely formed, globular in shape, but reflexed as they open. Color, soft rosy crimson. 25c. and 50c.
- DR. REYMONT.**—New, bright crimson, medium size, always in bloom. Each, 25c.
- LA FRANCE.**—Large double flower of silvery rose; exquisite fragrance.
- MADAME SCHWALLER.**—A wonderful bloomer, of bushy growth and vigorous; flowers large and exceedingly sweet, color rosy flesh.
- METEOR.**—The best dark colored rose of the section. It is a vigorous grower, flowers double, of a bright shade of crimson. 25c. and 50c.
- PIERRE GUILLOT.**—Flowers large, well formed and double; very fragrant; color, deep red. A grand rose in every respect.
- VISCONTRESS FOLKESTONE.**—The flowers are delicately tinted with creamy pink on white ground. 20c. and 40c.
- WM. FRANCIS BENNETT.**—Semi-double; flowers of deep crimson color; exquisite fragrance. Of no value for bedding.
- Price, except where noted, each, postpaid, 15c; larger plants by express, each, 30c.

NOISETTE AND CLIMBING ROSES.

Especially adapted to the South and the Pacific coast, where they cover verandas and sides of houses with masses of bloom.

- CHROMATELLA.**—(Cloth of Gold).—Yellow.
- GOLD OF OPHIR.**—(The famous California favorite).—Salmon, fawn and copper, strong grower. Each, 25c.
- GLORIE DE DIJON.**—Very double, rich creamy yellow.
- LAMARQUE.**—White, blooming in clusters.
- L'ABONDANCE.**—White, tinted at first with rose; flowering in clusters of from 50 to 100 on a stem. 25c.
- MARECHAL NEIL.**—Immense yellow roses, fragrant.
- MAX SINGER.**—Bright cherry red; very double.
- MME. CAROLINE KUSTER.**—White, tinted yellow.
- REINE MARIE HENRIETTE.**—Deep red; large.

Price, except where noted, first size, by express, 30c; second size, 10c.

TREE ROSES.

Rose Trees are made by inserting one or more buds, taken from choice bush varieties, into the top of a vigorous shoot of the European Hedge Rose. After the buds have taken, the hedge rose top above the buds is cut off. Any sprouts that appear on the stem below the bud must always be rubbed or cut off, so that the entire growth is confined to the budded part or head. In this way beautiful trees are formed with a clean stem 5 or 6 feet high, making choice ornaments for the garden. North, it is necessary to protect the stem and head over winter. Late in fall take out a few spades of soil on one side of the roots, gently bend over and cover with loose straw manure or litter, to be removed early in spring. We furnish with each plant a neat green painted stake.

Best H. P. Varieties, named, each, \$1.50; doz., \$13.00.

Best Tea Varieties, named, each, \$1.50; doz., \$15.00.

St. JOSEPH, MICH., April 30, '90.—The bulbs and plants came as usual in prime, first-class condition. We desire to express our thanks and grateful appreciation of your promptness in filling orders with the most choice and desirable varieties, true to name and always satisfactory. EMMETT ROBERTS, M. D.



TREE ROSE.

For general planting and permanent effect, the hardy Hybrid Perpetual Roses are always preferred. All varieties in this list are shipped in large plants averaging from 18 to 36 inches in length. Rare and choice sorts can only be supplied in low budded plants. Packed ready for shipping a dozen will weigh from 6 to 8 pounds. Your express agent will tell you what it will cost to get them from Chicago. Intending planters are advised to purchase this size. Varieties marked * can be supplied in small plants of mailing size.

- ***AMERICAN BEAUTY.**—(Mme. Ferdinand Jamain).—Rosy crimson, deliciously fragrant, strong budded plants. 2 years, each, 50c.; on their own roots, 20c. and 30c.
- ANNA DE DIESBACH.**—Rose, carmine tint, large, beautifully formed.
- ***BARONESS ROTHSCHILD.**—Light rose. Each, 20c. and 35c.
- ***BOULE DE NEIGE.**—Pure white, medium size.
- ***CAPTAIN CHRISTY.**—Delicate flesh color, deeper in center.
- ***COLUMBIA.**—White; very hardy; a favorite variety.
- ***COQUETTE DES ALPS.**—Pure white flowers, sometimes shaded with blush; free bloomer; always in demand.
- COUNTESS OF OXFORD.**—Carmine red; large.
- DUCHESSE DE VALLOMBROSA.**—Satin pink passing to white.
- EARL OF DUFFERIN.**—Velvet crimson, shaded maroon.
- ELIE MOREL.**—Rosy lilac; very large and full.
- ETIENNE LEVET.**—Finest carmine; free bloomer.
- FISHER HOLMES.**—Grand scarlet; imbricated; large flower.
- ***GENERAL WASHINGTON.**—Perfectly double; large, fine form; very free; color bright vermilion rose.
- ***GENERAL JACQUEMINOT.**—Dark velvet crimson; grand.
- GIANT OF BATTLES.**—Large and sweet; brilliant crimson.
- HER MAJESTY.**—Beautiful soft pink; flowers very large; strong grower; valuable South. Grafted plants only, 50c.
- JEAN SOUPERT.**—Crimson, shaded maroon.
- JOHN HOPPER.**—Bright rose with carmine center.
- MARQUIS DE CASTELLANE.**—Light pink; large globular flowers.
- ***MADAME CHARLES WOOD.**—Large bright red flowers.

- ***MADAME MASSON.**—Dark crimson, fine form; free bloomer.
- ***MAGNA CHARTA.**—Bright clear pink; a grand rose.
- ***MARIE BAUMANN.**—Bright carmine; very free; prolific bloomer.
- MARQUERITE DE ST. AMAND.**—Pink; large; a splendid rose.
- MME. GABRIEL LUIZET.**—Silvery pink, sweet scented; grand.
- MME. LACHARME.**—White, very large and hardy.
- MAURICE BERNARDIN.**—Velvety crimson; large; a splendid color.
- MERVEILLE DE LYON.**—Creamy white; large; very desirable.
- ***MRS. JOHN LAING.**—Clear rose, very fragrant; free bloomer, best. See remarks on another page rose department. 25c. and 50c.
- ***PAUL NERON.**—Dark rose, strong grower, immense flowers.
- ***PRINCE CAMILLE DE ROHAN.**—Dark velvety crimson; rich.
- QUEEN OF QUEENS.**—Flowers pink, with blush edges; large.
- ROSIERISTE JACOBS.**—Velvety red, shaded black; unique.
- ***SILVER QUEEN.**—Silvery blush; extra fine. Each, 35c.
- ***ULRICH BRUNER.**—Vigorous; cherry; flower large and full.
- ***VICTOR VERDIER.**—Fine, large, free bloomer, rosy carmine.
- WHITE BARONESS.**—A white sport of Baroness Rothschild; very hardy.

Price, except where noted: First size, each, 30c.; doz., \$3.00. Second size, by mail, each, 15c.; doz., 1.50.

HARDY MOSS AND JUNE ROSES.

- HARRISON'S YELLOW.**—Bright yellow; old favorite.
- PERSIAN YELLOW.**—Rich golden yellow; very double.
- MADAME HARDY.**—White; large and full. Each, 50c.
- ***MADAME PLANTIER.**—Best double white.
- SWEET BRIAR.**—Eglantine. Single, rosy white; fragrant foliage.

First size, each, 30c. Second size, only those marked with *, each, 15c.

MOSS ROSES.

- BARON DE WASSENAER.**—Red; fine form.
- BLANCHE MOREAU.**—Pure white; excellent variety.
- GLORY OF MOSSES.**—Rose, very large, fine form.
- LANEII.**—Rosy crimson, large and double.
- LITTLE GEM.**—Crimson; small; beautifully mossed.
- MOUSSELINE.**—White tinted rose; perpetual. Each, 50c.
- REINE BLANCHE.**—Pure white; large flower.
- SALET.**—Bright rose, blush edges; extra.
- VIOLACEA.**—Violet crimson; large.

First size, each, 30c; second size, marked with *, each, 15c.

THE GARDEN COLLECTION

Of Hardy Roses (Large Plants) for Beginners. Just what is needed for a Small Lawn.

2 Climbing Roses; 2 Moss Roses, 1 red, 1 white; 3 H. P. Roses, 1 deep crimson, rich and velvety, 1 pure white, 1 rich rose pink; 1 Persian Yellow, very double, rich golden color.

8 Large Plants, \$2.00.

◁ GENERAL * LIST * OF * EVERBLOOMING * ROSES. ▷

Please Observe.—This list of Monthly Roses contains select sorts—varieties that have been tried and proved. The colors only are given, space not permitting the usual "wordy," tiresome description found in all catalogues. Purchasers are assured that all are good growers, free bloomers, and that it is as select a collection as can be found.

HOW TO GROW ROSES.

Where to plant.—All bush or dwarf roses should be planted where they will get the sun all day, never near large trees or in a shady situation. Running roses may be planted near the house or verandas, giving them as much sunlight as possible.

Soil.—Any good mellow soil will grow roses, but we prefer a rather stiff loam, avoiding low wet ground. Well rotted manure, chip dirt and barnyard scrapings deeply spaded in (18 to 24 inches) makes healthy, vigorous plants.

Cultivation.—Presuming that the soil has been thoroughly prepared as directed, the after culture and care is light. Stir the soil, if possible, once a week, carefully at first, then deeper later on. Weeds cannot grow. You will be delighted to see the vigorous, healthy growth which must precede fine flowers.



Prune large dormant 1 and 2 year old plants. At least one-half of the long branches should be cut off as soon as the plants are received. Keep the roots moist and away from drying winds. Success in a large measure is assured if the soil be thoroughly firmed around the roots.

Insects and Disease.—Green fly is easily subdued by dusting the moist leaves with powdered tobacco. The rose slug is quickly killed by dusting the insects, the whole plant in fact, with road dust on a bright sunny day. Mildew, which affects the leaves in early spring and fall, is due to a variable temperature; for this, dust powdered sulphur on the leaves.

NOTICE.—Plants shipped by express are sent at purchaser's expense.

Everblooming Roses are quite hardy south of the Ohio River, and with careful protection live through our severe northern winters; leaves from forest trees are best for covering, but they should not be put on until late in November.

AGRIPPINA.—Brilliant red.
BON SILENE.—Carmine.
CATHERINE MERMET.—Rosy flesh.
COMTESSE DE LABARTHE.—Rosy salmon.
CORNELIA COOK.—White, tinted lemon.
DOUGLAS.—Rich crimson.
DEVONIENSIS.—White, tinged with blush.
DUCHESS OF EDINBURG.—Crimson.
EDITH GIFFORD.—Flesh white, pink center. 15c. and 35c.
ERNEST METZ.—New; rosy carmine. 25c. and 50c.
ETOILE DE LYON.—Golden yellow.
FRANCISCA KRUGER.—Coppery yellow.
GRACE DARLING.—Rosy pink, shaded yellow.
HERMOSA.—Soft pink. A favorite variety.
ISABELLA SPRUNT.—Canary yellow.
JOSEPH METRAL.—New; dark red. 25c. and 50c.
LA PRINCESS VERA.—Creamy white and rose.
LUCIOLE.—Carmine rose, shaded yellow.
LETTY COLES.—Satin pink with carmine center.

MADAME BRAVY.—Rich cream.
MME. DE WATTEVILLE.—White, edged with bright rose.
Mlle. LAURETTE MESSIMY.—Bright rose.
MADAME CUSIN.—Deep rose.
MADAME FALCOT.—Fine apricot.
MME. HONORE DEFRESNE.—Amber yellow.
MME. MARGOTTIN.—Citron yellow.
MME. WELCHE.—Apricot yellow, orange center.
MARIE LAMBERT.—Pure white.
MARIE GUILLOT.—Pure white.
MARIE VAN HOUTTE.—Pale yellow, petals suffused with pink.
MRS. JAMES WILSON.—New; creamy white, shaded. Each, 25c. and 50c.
NAMELESS BEAUTY.—White, shaded flesh. 15c.
NEMESIS.—Dark crimson.
NIPHETOS.—Pure white.
PAPA GONTIER.—Vivid red, passing to rose.
PERLE DES JARDINS.—Yellow.

PRIMROSE DAME.—Pale yellow.
PRINCESS SAGAN.—New; brilliant crimson. 25c. and 50c.
PRINCESS VICTORIA.—Paper white; extra fine. 25c. and 50c.
QUEEN OF BEDDERS.—Crimson.
QUEEN'S SCARLET.—Rich crimson.
SAPPHO.—New; yellow, shaded rose, center peach. Each, 25c. and 50c.
SAFRANO.—Apricot, changing to fawn.
SOUV. D'UN AMI.—Pale rose.
SOUV. DE LA MALMAISON.—Flesh white.
SOMBREUIL.—White, edged silvery rose.
SUSANNE BLANCHET.—Pale rose.
SUNSET.—A sport of Perle des Jardins. Salmon, shaded yellow.
THE BRIDE.—Milk white.
THE QUEEN.—New; sport of Souv. D'Un Ami. Pure white. Each, 25c. and 50c.
WHITE BON SILENE.—Pure white.

Price, except where noted: First size, by express, 30c.; doz., \$3.00. Second size, by mail, 10c.; doz., \$1.00.

◁ EVERBLOOMING ROSE COLLECTION. ▷

One plant each, La France, Perle des Jardins, Catherine Mermet, Bride, Agrippina, and Francisca Kruger.
 The six, postpaid, for 50c.

◁ THE FAVORITE COLLECTION. ▷

Contains 13 Everblooming Rosas, embracing some of the choice novelties, and the most select of the other varieties.

Etoile D'Or, the Star of Gold.
 Marie Guillot, Mad. A. de Tarle,
 Mignonette, Etoile de Lyon,
 Hermosa, Douglas,
 Augusta Le Gros, Marie Van Houtte,
 Nemesis, Susanna Blanchet,
 Safrano, Ernest Metz.

The Favorite Collection, 13 plants, postpaid, \$1.50.

◁ THE DIAMOND COLLECTION ▷

Of Everbloomers from all classes; buds and rare fragrant blooms the season through.

26 NEWEST AND BEST OF ROSES.

An unequalled collection at a moderate price.

Clothilde Soupert,	Madame Hoste,	Dinsmore,
The Queen,	Ernest Metz,	Sappho,
Mrs. J. Wilson,	Joseph Metral,	Princess Sagan,
Etoile de Lyon,	Francisca Kruger,	Maria Lambert,
Marie Guillot,	Princess Victoria,	Mad. Margothien,
Comptess Le Barthe	Malmaison,	Mad. Welche,
Lettie Coles,	Grace Darling,	Miniature,
Duchess of Albany,	Devoniensis,	Marechal Neil.
Mrs. John Laing,	Souv. de Wooton,	

Every one tried and proved.

Diamond Collection, 26 plants, postpaid, \$4.00.

◁ HARDY CLIMBING ROSES. ▷

BALTIMORE BELLE.—Blush white; very double; blooms in clusters.
PRIDE OF WASHINGTON.—Rosy carmine, shaded pink; vigorous grower.
QUEEN OF THE PRAIRIE.—Dark pink, compact and globular.
SEVEN SISTERS. In clusters; variable red and white; large plants only.
 First size, by express, each, 25c.; doz., \$2.50.
 Second size, postpaid, each, 15c.; doz., \$1.50.



CLIMBING ROSE.

* ▷ WOLFSDEN ▷ *

NOVELTY PLANT COLLECTION.

This Special Bargain Offer, which we first instituted last year, was intended as a means of introducing our **Greenhouse Plants**, and though this department has been in existence but 18 months, it has filled orders from very many of our customers. As a standing advertisement of our plants to all new readers, for 1891 we give the following: We shall maintain this feature, giving each year, nine new rare or very desirable plants or bulbs, postpaid everywhere. The most possible for the dollar.

OUR SECOND ANNUAL CELEBRATED *

* + WOLFSDEN PLANT COLLECTION FOR 1891 IS AS FOLLOWS:

Rose Clothilde Soupert.—Best for pots and bedding.
Plant Carnation Margaret.—Quickest blooming of all.
Geranium Columbia.—A new double, with distinct scarlet and white striped flowers.

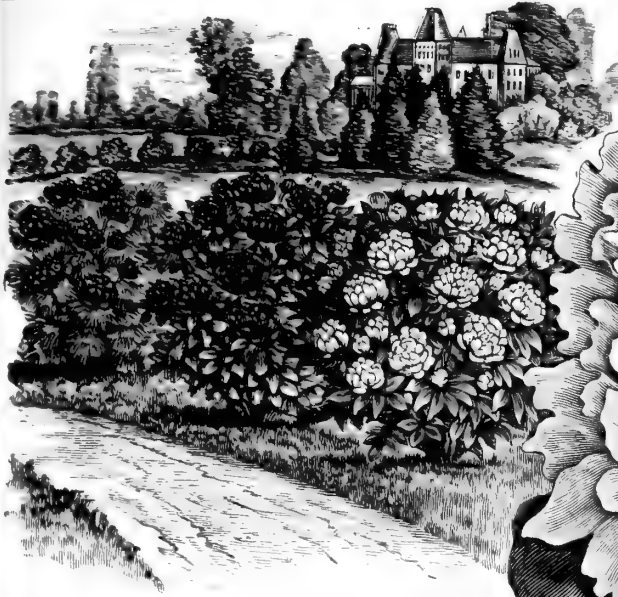
One Bulb Lilium Harrisii.
One Bulb New California Gladiolus.
One Bulb Hardy Moonflower.
One Plant New Seedling Chrysanthemum.
One Bulb Tuberous Begonia.
One Plant New Curious Dahlia.

The above nine unequalled specialties mailed everywhere for \$1.00

Tradition has it that the knoll on which our Greenhouses are built, was, in early pioneer days, a Wolf's Den, and a customer in Montana sent us a pair of young wolves, which we have arranged a nest for on our grounds.)

TUSCOLOOSA, ALA., Feb. 25, '90.—Box of plants received yesterday in fine condition. The Wolf's Den Dollar Collection exceeds anything I have ever gotten before. Much pleased with all I received. MRS. WILLIAM MILLER.

Should you receive two copies of this Catalogue, we trust you will consider one of them a worthy present for a seed buying friend. We shall be glad to send it to any who are likely to purchase.



TYPE OF BEST NEW PÆONIAS.

© NEW FRENCH PÆONIAS. ©

We import each season from leading English and German growers the best varieties of this fine hardy plant. Their immense double satiny flowers in clear fine colors and their hardy vigorous habit account for their great popularity. Even when not in bloom they are symmetrical, showy lawn plants. Prices postpaid.

- Esperance.**—Vivid rose, large silky flower. Each, 50c.
Nivalls.—Soft and rosy pink, center creamy white and rose. 50c.
Beauty.—Soft pink with blush white, very double and fragrant. Each, 50c.
Mme. Chaumy.—Fragrant, satiny rose, shading light toward the edges. Each, 50c.
M. Rieffez.—Blush pink with silvery guard petals. Each, 60c.
Queen of Whites.—Fine silky white, often 6 inches across. Each, 75c.

- FRAGRANS.**—Clear rose, very fragrant, late. Each, 30c.
LADY WASHINGTON.—White, medium size. Each, 30c.
OFFICINALIS.—Immense flowers, double crimson, bright rose or pink, sometimes changing to white; strong imported plants. Each, 40c.; 3 for \$1.00.
POTSL.—Dark crimson; very large. Each, 30c.
TENUIFOLIA FL. PL.—A new distinct Pæonia, fern-like foliage and handsome full double red flowers; early; color like Gen'l Jacqueminot Rose. 50c.
TRICOLOR.—Pale lemon, white and pink; fine. Each, 30c.

FUNKIAS OR DAY LILIES.

- FUNKIA LANCEOLATA VARIEGATA.**—There are no better hardy plants than the Day Lilies and of them none is so showy and effective as the variegated variety. The stock has always been very scarce and hard to get. Plants with odd and varied leaf markings are just now extremely popular. If you want a really good hardy showy plant, try this. Leaves heavily blotched with creamy white, bordered with green. Flowers pale blue, 35c.; doz., \$3.50.
FUNKIA ALBA. (WHITE DAY LILY.)—Pure white Lily-like flowers of delicious fragrance; pretty green foliage, very hardy. Will thrive in ordinary garden soil. Each, 25c.; doz., \$2.50.

IRIS. FLEUR-DE-LIS.

Taken as a whole, form a group unparalleled in beauty; nothing can vie with them, unless it is the Orchids from the tropics.

IRIS GERMANICA.

One of the most brilliant and hardy types of Iris; large flowers richly marked with violet, purple and bronze, broad-leaved. We have a fine assortment of named varieties; very strong roots.

- ATROPURPUREA.**—Rich purple, very free and early. 50c.
AUREA.—Large golden-yellow flowers, very fine. Each, 40c.
FLAVESCENS.—Light primrose yellow, large, fine. Each, 35c.
MADAME CHEREAU.—White, edged and feathered violet; very free flowering. Each, 30c.
PRINCESS OF WALES.—Pure white, extra fine. Each, 30c.
MIXED.—Good varieties; strong roots. Each, 20c.; doz., \$2.00; not prepaid, per doz., \$1.25.

IRIS KÄMPFERI.

The beautiful Japan Iris, distinct, large and handsome flowers profusely in June and July.

- DOUBLE WHITE.**—Beautiful for cut flowers. Each, 25c.
DOUBLE MIXED.—A fine assortment. Each, 25c.; doz., \$2.00.
KÄMPFERI SEEDLINGS.—From the finest named varieties and generally fully equal to them. Each, 10c.; doz., 75c.
IRIS SUSIANA or Mourning Bride.—A very large early flowering Iris; color grayish blue, finely netted and lined with deepest chocolate and black. Each, 15c.; doz., \$1.50.

YUCCA FILAMENTOSA (ADAM'S NEEDLE.)

A very showy hardy plant with ornamental foliage; blooms in midsummer, sending up flower spikes often five feet high hung with large white flowers. As a lawn plant it has a decidedly tropical effect. Each, postpaid, 15c.; 4 for 50c. Large plants, not prepaid, each, 30c.; doz., \$2.50.



NEW JAPANESE TREE PÆONIES.

THE FINEST OF ALL PÆONIES. Like most Japanese importations, quite hardy and remarkable for their great perfection of flowers, both in size and richness of color. They grow to the size of a large shrub, increasing in vigor and size of flowers season after season. Choicest imported varieties. Each, \$2.00.

• TRITOMA UVARIA •

Often called the "Torch Lily" or "Red Hot Poker" on account of its dense spikes of flame-colored flowers. It blooms in August and is very striking when planted singly on the lawn. Does well planted near water or in any rich soil. Each, 20c.; doz., \$2.00.



FUNKIA LANCEOLATA VARIEGATA.

CATSKILL, N. Y. May 2nd, '90. Never had such fine plants from any nursery before. I am proud to have such plants put out.
 Mrs. J. C. HUBBARD.

PERMANENT ORNAMENTS

HARDY SHRUBS.

FOR LAWN AND GARDEN

For large Lawns and Parks, Hardy Shrubs are best planted in groups of from three to six of a variety, and arranged in this manner make a handsome effect in a short time. Their permanence and hardness recommend them to all who have large grounds. Our list comprises the best varieties for general use; our stock consists of strong, well-grown plants that will give satisfaction. Prices include prepayment by mail, large trees and shrubs excepted. These are forwarded by express or freight at purchaser's expense.

ALTHEA (ROSE OF SHARON.)

Very pretty and popular shrubs, easily grown, blooming readily and freely the first season.

ALBA PLENA.—Double white. CÆRULEA PLENA.—Double blue. TOTUS ALBUS.—Single white.
BOULE DE FEU.—Double red. POMPONE ROUGE.—Dwarf, double red. VIOLACEA.—Double violet.
VARIEGATUS PLENUS.—Green leaves, broadly margined with creamy white, flowers double red; one of the best variegated leaved plants. Each, 25c.

Price, postpaid, 15c., except where noted; larger plants sent if ordered by express.

BOX.—DWARF.—We have frequent calls for this evergreen border or edging garden plant, hardy south of the Ohio river. Good plants by mail, \$1.00 per dozen; by express, \$3.00 per hundred.

CHESTNUT, JAPANESE.

Fruit very large, fully four times the size of the American. Dwarf, early fruiting, often bearing the second year after planting. Each, 50c.; Doz., \$5.00.

CALYCANTHUS.

FLORIDUS.—A handsome shrub, well worth growing; flowers brown-red with an exquisite pine-apple fragrance; hardy and desirable. Each, 15c.; larger plants, 35c.

DEUTZIAS.

Early spring-flowering shrubs, with long, graceful spikes of white flowers from every bud or eye, pretty foliage, upright growth; handsome lawn shrub. Postpaid, each, 15c.; doz., \$1.50.

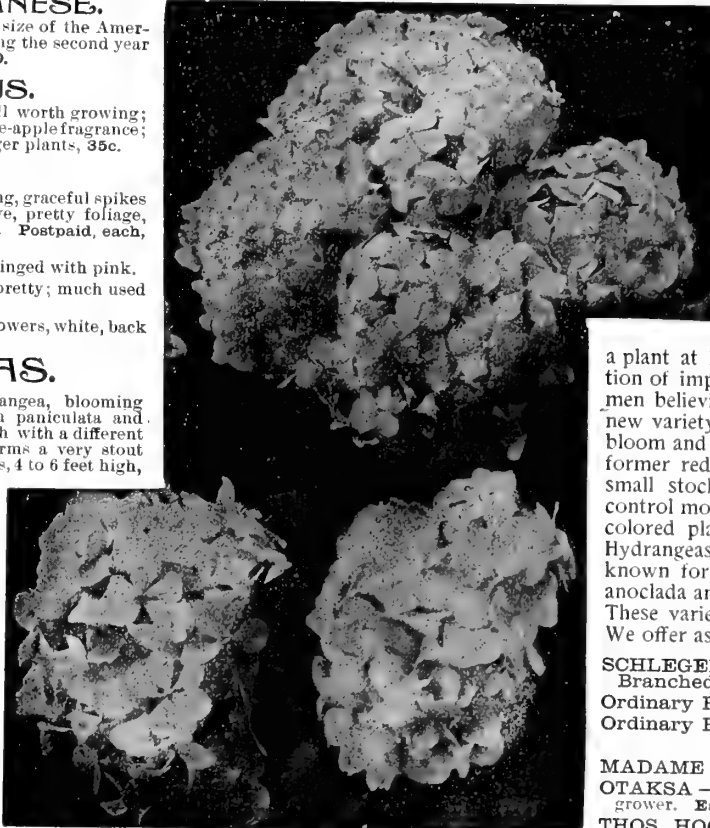
CRENATA FL. PL.—Double white, tinged with pink.
GRACILIS.—Snow white; extremely pretty; much used by florists for forcing.

PRIDE OF ROCHESTER.—Large flowers, white, back of petals rose.

HYDRANGEAS.

VESTITA.—New.—A hardy Hydrangea, blooming earlier than the well-known Hydrangea paniculata and fully as showy a sort as that one, though with a different style of inflorescence. This species forms a very stout bush, composed of many upright branches, 4 to 6 feet high, with much handsomer foliage than that of the older sort, and bearing great flat, round umbels of pure white, showy flowers, five to eight inches across. Each, 60c.

PANICULATA GRANDIFLORA.—Tens of thousands of these noble summer and autumn flowering shrubs have been sold the past few years and the demand is still good. They are absolutely hardy, grow in any soil, and bloom the same year they are set out; they flower abundantly, bearing immense panicles of bloom, white at first and turning to rose in autumn. To make a fine specimen, the soil should be as carefully prepared as for any fine shrub. An annual shortening of the branches tends to increase the size of the flowers. Each, 15c.; large plants, 25c. and 50c.



SCHLEGEL'S RED BRANCHED HYDRANGEA.

MAGNOLIA GRANDIFLORA.

Forms a fine pyramidal tree, with handsome glossy foliage and immense showy white flowers of powerful fragrance; blooms in late summer. Is an evergreen and hardy south of the Ohio river, in the north a very desirable shrub. Each, 20c.; doz., \$2.00.

NEW JAPANESE MAPLES.

Very elegant ornamental shrubs or small trees for lawn planting. The leaves are of various forms and colors. For convenience we have divided the numerous varieties into four divisions. 1. Scarlet and red-leaved varieties. 2. Purple-leaved with fern-like foliage. 3. Variegated foliage, green leaves margined white and rose. 4. Varieties with golden foliage. Each, \$2.00. Set of 4 for \$6.00.

PHILADELPHUS (MOCK ORANGE OR SYRINGA.)

One of the very best flowering shrubs; perfectly hardy; covered in summer with clusters of fragrant waxy-white flowers. AUREUS.—Golden-leaved. Keeps its color the whole season, very distinct and pretty. Each, 35c.

CORONARIUS.—Tall; large clusters of sweet-scented, pure white flowers. Each, 15c.

DIANTHÆFLORUS.—A double flowered form of the Coronarius; not so tall. Each, 15c.

ROSÆFLORUS.—Largest of all; flowers double white. Imported plants. Each, 25c.

PTELIA TRIFOLIATA AUREA.—The Golden-leaved Hop Tree. New. "It is a remarkably low tree with large trifoliate leaves of great substance, and with a glossy surface that brings out the rich solid yellow of the leaves as with a coat of varnish. No tree is easier to transplant or hardier. It holds its rich colors undimmed till the last leaf drops in October."—TEMPLE. Each, \$1.00.

RHODODENDRONS.

Finest of all evergreen flowering shrubs. Branches terminated with large panicles of Azalea-like flowers, only larger. Does best in a peaty soil mixed with sand and leaf mold. A little shade is beneficial. The hardest varieties only, various sorts and colors. Each, \$1.25; Doz., \$12.00.

SAMBUCUS (ELDER.)

Very pretty singly or in groups; the leaves are much divided, very long and have a charming fern-like appearance. SERATIFOLIA.—Fern-like leaves. Each, 25c.
FOLIIS LUTEIS.—(Golden Elder.) Leaves variegated with yellow. Each, 25c.

STAPHYLEA COLCHICA.

Very ornamental plant, the branches terminating in large clusters of white flowers resembling orange blossoms and remaining a long time in bloom; rare and valuable; best suited for regions south of the Ohio river. Each, 50c.



HALF HARDY HYDRANGEAS.

Popular window garden and house plants; when grown in large pots they quickly make very fine ALTHEA specimens.

NEW RED BRANCHED.

Much attention has been attracted to this Hydrangea the past year from the remarkable flowers produced by

a plant at Rochester, N. Y., found in a large collection of imported Hydrangeas, many expert plantmen believing that this proved the existence of a new variety, as it showed much larger trusses of bloom and much larger individual flowers than any former red-branched sort. From this one plant a small stock has been propagated, of which we control more than two-thirds, and from which our colored plate was painted (mailed for 10 cents.) Hydrangeas with purplish red branches have been known for years, the varieties Ramis Pictis, Cyanoclada and Madame Van Siebold, being examples. These varieties have never become very popular. We offer as follows:

SCHLEGEL'S TRUE large flowering Red Branched, Each, 75c.

Ordinary Red Branched, large plants, each, 40c.

Ordinary Red Branched, small plants, each, 25c.

MADAME VON SIEBOLD—Rosy flowers. Each, 25c.

OTAKSA—Deep rosy pink, very large panicles; vigorous grower. Each, 15c.; large plants, each, 35c.

THOS. HOGG—Pure white, dense heads; a fine companion to Otaksa. Each, 20c.; larger plants, 35c.



JAPAN SNOWBALL. (VIBURNUM PLICATUM.)

SPIRAEAS.

Charming low growing, early-spring flowering shrubs. Many varieties including

ARIEFOLIA.—Very dwarf, covered with a sheet of white flowers. Each, 15c.

BILLARDI.—Branches terminate with clusters of rosy pink flowers. Each, 15c.

BUMALDA.—Little clusters of pure white flowers an inch apart on long slender branches; charming. Each, 15c.

REEVESI FL. PL.—(Bridal Wreath.) Similar to above, except that little flowers are as double as a rose. Each, 15c.

STYRAX JAPONICA.

Foliage deep glossy green and the whole plant covered with beautiful drooping star-shaped white flowers, which turn into white berries that remain on the plants until winter. It is a new introduction and is recommended as one of the finest hardy shrubs in cultivation. Each, 25c.; doz., \$2.00.



LILAC (Syringa).

ELEAGNUS LONGIPES.

bran new fruit—Not a variety of an old one—something new and valuable. Native of Japan.

We have something here that will not stop spreading until every garden in the land has them. As a family fruit it is unique, being more like a Cranberry than anything, but much more pleasant to eat from the bush, having an attractive appetizing, near sub-acid flavor, and much superior to do up in any way, particularly for jelly. For a market fruit it has the field to itself, coming in when it does, we predict a very profitable sale for its fruit. So impressed are we with this point, we are now preparing to plant a large piece of ground in this delicious fruit for market purposes. As an ornamental plant it is grand, representing great beauty in flower and fruit, and suggesting the horn of plenty overflowing. The following is a description:—

A vigorous-growing shrub, with spreading branches; the leaves are a bright green color and a silvery white on the under side, giving it a very attractive appearance. The flowers are yellow, very small, and inconspicuous, borne on long, slender peduncles. The fruit is produced in the greatest profusion imaginable, of a bright red color, covered with white dots of a sprightly acid, and very agreeable flavor. In many instances it is considered preferable to the Currant or Cranberry, in which case we think it a valuable addition among our small fruits. It is a very free grower, of compact habit, and will, undoubtedly, prove very useful as well as ornamental. Price, 25c. each; \$2.50 per dozen.



ELEAGNUS LONGIPES

Among the hardy shrubs few are so justly esteemed as the Lilac; few others will grow and thrive in poor soil, stand abuse, neglect, drouth, heat and cold, and in return give such quantities of bloom; its great clusters of fragrant lilac flowers are too common to need much description. They grow freely, and flower profusely outside in almost any soil and situation, but will repay a little extra attention bestowed in removing suckers. They are also among the best plants for forcing in winter and early spring. We offer several new imported Lilacs which are remarkable for size of bloom, trusses and color. Large Imported Plants, not prepaid unless noted.

LILACS.

NEW DOUBLE FLOWERED.

LE GAULOIS.—This very handsome variety is of French origin and is one of great merit. Its handsome double deep crimson flowers are produced in very large panicles. A splendid sort. Each, \$1.00.

MICHEL BUCKNER.—This grand double Lilac produces a beautiful pale lilac bloom, each flower composed of three corollas. Very large panicles, eight inches in length. Stout stocky grower and taken altogether is a magnificent variety. Each, \$1.00.

MADAME LEMOINE.—In this we have the first double pure White Lilac, something which has long been sought and therefore a great acquisition. It is to the skill of French horticulturists we are indebted for this gem among hardy shrubs. The flowers which are composed of a number of corollas are borne in enormous panicles and being double white are unusually attractive. Each, \$5.00.

THE TREE LILAC (NEW.)

SYRINGA JAPONICA.—From Japan. "It makes a straight, stout, well-branched tree, in shape like a young ash, with large and handsome leaves, but when it puts forth in midsummer, when other lilacs have long been gone, its immense clusters of white blossoms standing stiffly up on the outer and top shoots, sometimes measuring 16 by 24 inches in size, it is then, without doubt, the most showy of ornamental trees. Specimens are now to be seen in Boston, Mass., 12 years planted and 20 feet high." Prof. C. S. Sargent says: "It is one of the most magnificent trees received for years, it is truly the noblest member of a great family which are all highly ornamental and some of which, the common lilacs, are dearest to the hearts of the people of any trees or shrubs." Each, \$1.00.

THE PINK FLOWERED LILAC.

SYRINGA VILLOSA.—Another new Japanese species with large leathery green foliage like the white fringe tree. Flowers rose pink, a distinct, new color, very floriferous; it is, without doubt, the most striking novelty—the Tree Lilac excepted of any thing offered in this most popular family for years. Each, \$1.00.

OLDER LILACS.

ALBA.—White. Each, postpaid, 15c.; doz., \$1.50.

BERTHA DAMMANN.—(New.) Very large truss; brilliant color. Each, \$1.00.

GIANT OF BATTLES.—Red, one of the finest new sorts. Each, 50c.

GOLIATH.—The largest truss of any; deep lilac. 60c.

MARIE LEGUAY.—The finest of White Lilacs. Grand trusses of pure white flowers; florets very large. Immensely superior to the old white Lilac. Small plants, Each, 50c.

PERSICA ALBA.—Slender branches terminating in large trusses of pure white flowers. Always scarce. Each, 25c.

PYRAMIDALIS.—(New.) Pyramidal clusters, very compact double blooms with several corollas fitted one in another. Flowers pale blue, carmine buds. Imported plants, Each, 60c.

RUBRA DE MARLEY.—The well-known Lilac, common in gardens and much used by florists for forcing. Each, postpaid, 15c.; doz., \$1.50.

SOUVENIR DE L. SPATH.—The finest of the single sorts, the flowers are large and of a purplish scarlet color. Each, \$1.00.

TAMARIX AMURENSIS.

New. The common Tamarisk barely survives mild winters in this latitude. The new Amurensis Variety, however, is a native of Russia, and perfectly hardy in all parts of the United States. This quaint shrub should be in every collection. The growth is very peculiar, reminding one somewhat of the Northern Ground Pine or Club Moss. There is no shrub or tree like it. Flowers very small, in little spikes, pearl pink in color. Each, 50c.

VIBERNUM. (SNOWBALL.)

OPULUS.—Well-known garden shrub; early and free of bloom; an old garden favorite. Each, 15c.; larger plants, each, 25c.

PLICATUM.—The Japanese Snowball. Flowers white and more delicate. Leaves very dark green. Very hardy. Each, 50c.

WEIGELIA.

Handsome summer flowering shrubs, the long branches loaded with clusters of tubular, trumpet-shaped flowers. Many varieties, including:

HORTENSIS NIVEA.—Fine white. Each, 25c.

ROSEA.—Well-known blush white. Each, 15c.

NANA VARIEGATA.—Leaves margined with creamy white, flowers pale pink; one of the best variegated shrubs known. Each, 15c.

THE TRIFOLIATE ORANGE.

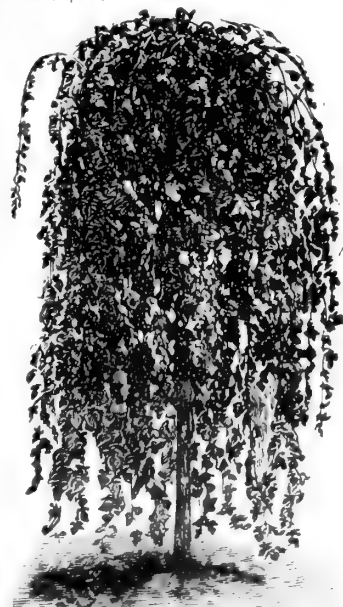
A new, hardy orange. This, the most hardy of oranges, has of late created quite a sensation in the North, from the fact that it is perfectly hardy, and that it blooms and fruits profusely in the parks of Philadelphia and New York. To have a fruiting orange tree in your garden is certainly something to be proud of; and besides, its large, white, sweet scented flowers are produced in the greatest abundance before the fruit appears. It is also well adapted for hedges, making, as it does, a close, compact growth that nothing can penetrate. Such a hedge, when in bloom and in fruit, is certainly one of the grandest sights to be seen. The fruit, which is bright orange red in color, and has a peculiar flavor, is very ornamental. Price, for fine young trees, suitable for pots or garden, each, 35c.; extra size, each, 50c.

TEA'S WEeping MULBERRY.

THE FOUNTAIN TREE.

The most beautiful weeping tree of recent introduction. The slender branches grow downwards parallel with the stem, forming an umbrella-like shape. Leaves small, more or less lobed and of a lively green color. A strong, vigorous grower, entirely free from the attacks of insects, blight or rust. This variety originated in this country, and is a form of the hardy Russian Mulberry, therefore well adapted to our trying and variable climate. It is, in fact, a first choice in the most select collection of choice shrubs or trees.

First size, each, \$2.00; second size, \$1.50.



WEeping MULBERRY.

COMBINE YOUR ORDERS FOR Seeds, Tools, Fertilizers, and secure the same in one freight shipment at lowest rates.

Notice our very liberal Premium Offer on order sheet.

WARSAW, ILL., Nov. 2, '90.—I am pleased to state that the Rose Collection gave general satisfaction in our Society; some of the plants are beautiful. R. S. GARRETSON.

If you receive two copies of this Catalogue, present one to a seed-buying friend.

HARDY PERENNIAL PLANTS.

The tide of popular favor has turned decidedly toward these most useful of all plants. **Perfectly hardy**, once planted will last for years, increasing in size and beauty. They are no doubt the **plants of the future**. The following sorts have been selected with the greatest care; we think no better can be found.

Prices named below include postage unless otherwise noted.

ACHILLEA Ptarmica Fl. Pl. — One of the most useful; erect stems, 2½ ft. high, terminating in pure white double flowers. Each, 20c.; doz., \$2.00.

ACHILLEA, The Pearl. — An improvement on the old *A. ptarmica fl. pl.* The flowers, which are borne in great profusion upon erect footstalks, are of the purest white, and closely resemble a Pomponé Chrysanthemum. It blooms profusely from July until frost, and is a most vigorous grower. Each, 25c.; doz., \$2.00.

ANEMONE Japonica Alba, Honorine Jobert. — A charming variety with large pure white flowers, blooms freely until late in autumn; fine for bouquets, should be in every garden. Each, 25c.; doz., \$2.00.

AQUILEGIA Cœrulea. (ROCKY MOUNTAIN COLUMBINE.) — Grows about 1½ ft. high; foliage beautifully cut; the stems bear quantities of large erect flowers of soft violet blue and white. Flourishes in light sandy soil. Each, 25c.; doz., \$2.25.

AQUILEGIA Chrysantha. — Forms a fine bush, covered for two months with handsome long spurred flowers of clear yellow. Each, 25c.; doz., \$2.50.

AQUILEGIA Caryophyllus. — A fine strain, varied in color, white, blue, red, yellow, often spurred; good plants. Each, 20c.; doz., \$2.00.

AQUILEGIA Chrysantha Grandiflora Alba. — This new, large, flowering, pure white variety, with its fine long spurs is perfectly hardy and absolutely true to name, for in 1,000 seedlings scarcely 20 other shades have been found. It is a beautiful plant for pots, and if planted in groups in the garden, they present a perfect sea of white flowers. Each, 25c.; doz., \$2.50.

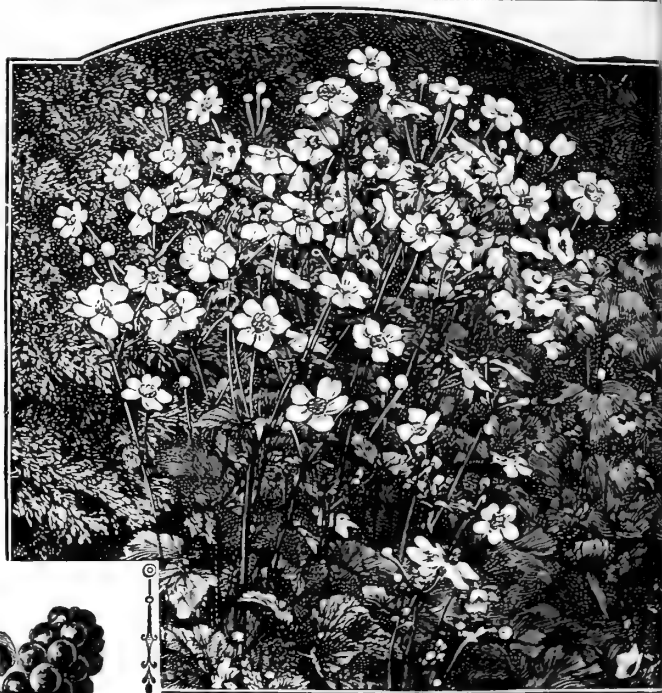
ARUNDO DONAX. (GREAT BAMBOO.) — A beautiful hardy ornamental grass with long, broad, elegantly re-curved leaves, picturesquely marked with broad, silver stripes; of very easy culture in ordinary garden soil, preferring damp situations; grows 6 to 10 feet high. Each, 35c.; large plants, 50c.

BLACKBERRY LILY. (PARDANTHUS SINENSIS.) — The fruit of this is exactly like a blackberry. Dried for winter they make a pretty ornament. Showy flowers, bright orange, spotted red, succeeded by these beautiful berries. Each, 15c.; doz., \$1.50.

CAMPANULA Persicifolia Alba Plena. — One of the finest bell-flowers; very double, pure white, borne in spikes two feet long; exceedingly free-flowering. Each, 25c.; doz., \$2.00.

CHRYSANTHEMUM Maximum. — Succeeds anywhere; the flowers are very large, often 3 to 4 inches across, pure white with yellow centers, fine for bouquets; will keep fresh over a week. Fine plants, each, 20c.; doz., \$2.00.

CHRYSANTHEMUM Uliginosum. — Extremely vigorous, producing a succession of large pure white daisy-like flowers. Each, 20c.; doz., \$2.00.



ANEMONE, HONORINE JOBERT.

COREOPSIS Lanceolata. — Flowers bright golden yellow on wiry stems, of fine shape and substance, blooming from June till cut off by frost. Each, 25c.; doz., \$2.50.

DELPHINIUM Album Grandiflorum. — New free-blooming pure white Larkspur. Each, 25c.; doz., \$2.50.

DELPHINIUM Formosum. — Bears blue flowers from June until frost. Each, 20c.; doz., \$2.00.

DIELYTRA SPECTABILIS, (BLEEDING HEART.) — These pretty spring bloomers, with their graceful drooping sprays of heart-shaped pink and white flowers, are very ornamental, and bloom freely in early spring. The plant being hardy, increase in size and bloom from year to year and should be in every garden. Each, 15c.; doz., \$1.50.

EULALIA Gracillima Univittata. — New The most beautiful and useful of all the Eulalias. Narrow green leaves with a silvery white midrib. This plant is of most graceful habit and is very beautiful for decorative purposes. Each, 30c.; doz., \$3.00.

EULALIA Japonica Zebrina. (ZEBRA STRIP ED GRASS.) — A remarkably variegated plant, having bars of yellow running crossway, not longitudinally as in the ordinary form of variegation; quite hardy, easily grown and one of the most ornamental grasses. Each, 25c.; doz., \$2.50.

GAILLARDIA Templeana. — One of the best hardy perennials, the plants are a mass of bloom from June to November; flowers rich crimson, orange and brown, very bright and showy. Each, 25c.; doz., \$2.50.



ARUNDO DONAX FOL. VAR.



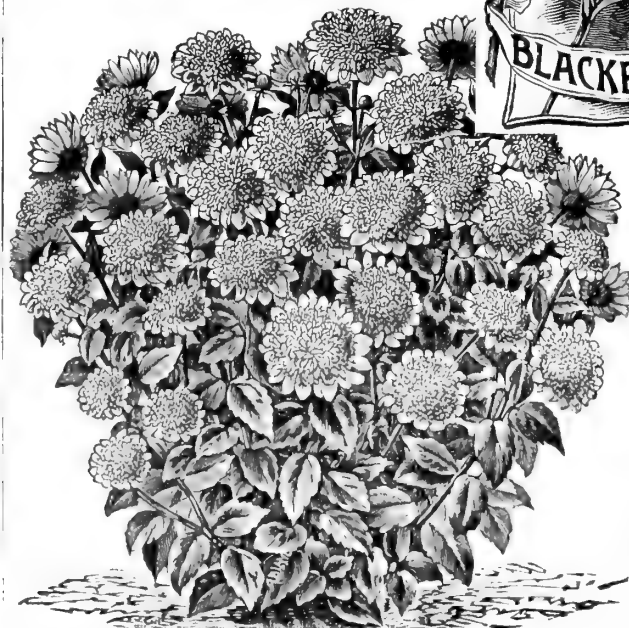
BLACKBERRY LILY

HEMEROCALLIS Flava. (LEMON LILY.) — Imported English roots of this delightfully sweet flower. It is a charming hardy perennial, with large broad grass-like foliage, and heads of large Lily-like flowers of a soft yellow and very fragrant; the flowers open singly, and are very useful for cutting. Strong plants. Each, 25c.; doz., \$2.50.

HELIANTHUS Multiflorus Plenus. — Really a gem and should be in every garden. The flowers are from three to four inches in diameter, as double as any double Dahlia, and covering the plant from the ground to the top. It is unsurpassed as a cut flower, lasting fully a week. These flowers on their long stems, together with our scarlet Cactus Dahlias make splendid vase decorations. Each, 15c.; 4 for 50c.; doz., \$1.25.

HELIANTHUS MULTIFLORUS Grandiflorus Plenus (New.)

Very much superior to the well known *H. Multiflorus*. Flowers of large size, very freely produced and of most intense golden yellow color. Very dwarf. Each, 30c.; doz., \$3.00.



HELIANTHUS MULTIFLORUS PL. PL. OR DOUBLE DWARF SUNFLOWER.

HARDY PERENNIAL PLANTS—CONTINUED.

HARDY GRASS PINKS.

Dwarf hardy border Pinks, free blooming, possessing the true clover scent
May Pink.—The old-fashioned hardy border pink.
Pheasant's Eye.—Double fringed flowers, velvety maroon, edge of silvery white.
Snow.—Very dwarf and bushy; flowers extra large and snow white.
Jean Sisley.—Rose with red center, very fine blooming.
 Price, each, 10c.; doz., \$1.00.

HIBISCUS, New Hardy. (Crimson Eye.)—This is a distinct strain of *Hibiscus moscheutos*, with flowers of immense size (8 in. in diameter), pure white with a large crimson center. Grows from 4 to 8 ft. high. Extremely showy. Each, 25c.; doz., \$2.50.

HOLLYHOCKS.

These handsome, showy plants are at present great favorites, their unique growth giving them a welcome everywhere. Our stock consists of fine well grown plants ready to bloom this year, raised from the best strains of Chaters' seeds. Their flowers are large double, hand-ome in form as a Camellia, and of lively shades of color. We offer the following varieties:

SNOWBALL.—Double, pure white.
CANARY.—Clear canary yellow.
ROSE.—Fine rose color.
RUBY.—Crimson.
MAROON.—Dark.
FLESH.—Very double.

Price, each, 15c. and 25c.; doz., \$1.25 and \$2., according to size.

ICELAND POPPIES, *Papaver Nudicaule*.—Very dwarf plants with fern-like tufts of foliage, flowering in the wildest profusion from June to October; pretty flowers with a lilac perfume. Each, 25c.; doz., \$2.00.

PENSTEMONS.

Perhaps no class of plants are so valuable for producing a mass of bloom during the summer months as these, so grand are they in fact, when massed in beds and borders, that no words can adequately express their magnificence. They include almost every shade of color from pure white to deepest crimson. They are perfectly hardy and easily grown. **Mixed varieties.** Each, 15c.; doz., \$1.50.

PERENNIAL PHLOXES.

These fine hardy plants are increasing in popularity every year and are among the most satisfactory of plants for clumps and borders. They are of dwarf, sturdy growth, and in late summer fairly cover themselves with immense pyramidal masses of brilliant flowers, varying in color from pure white with rosy eye to red with beautiful deeper markings. They will repay the care given them. They will stand any treatment and weather. Small plants bloom the first year.

COLLECTION OF NEW MAMMOTH PHLOXES—SEE COLORED PLATE.

Aureo Boreale.—Flowers large, in dense panicles; light orange purple centre; of great effect. Each, 25c.
Croix Du Sud.—Half-dwarf; of charming effect, immense panicles, forming a horizontal carpet. Each, 25c.
Diplomante.—Light rose, crimson eye, large flowers. A good one. Each, 25c.
Snowflake.—Fine large pure white flowers, petals velvety and rich. Each, 25c.

THE ENTIRE COLLECTION for \$1.50 also one

WASHINGTON, KAN., Oct. 30., 90. The poppies were beautiful. The other seeds procured from you were very satisfactory.

MRS. W. J. TOBEY.

Eclairer.—Plant half dwarf, dense panicles of enormous carmine flowers. Center rosy-salmon, surrounded with a starry wreath of rose white. Extra good. Each, 25c.

Liberte.—Panicles large; flowers a beautiful orange-salmon color, with purplish-carmine centre. Each, 25c.

Richepin.—Flowers large, shining lilac-rose; center violet in the shape of a cross. Each, 25c.

Golden Bedder *Coleus gratis*, with each collection.

HARDY PHLOXES—STANDARD VARIETIES.

Boule de Feu.—Rosy crimson; fine. Each, 20c.

Jeanne d'Arc.—Dwarf growing one foot high; pure white, largest flowers. Each, 20c.; the two for 30c.

Named Varieties.—All colors. Strong plants from open ground. Each, 15c.; per doz., not prepaid, \$1.00.

RUBBECKIA.—Produces showy yellow and black flowers in profusion during the summer and autumn; very useful for cutting purposes. Each, 15c.

VINCA MAJOR VARIEGATA.—Excellent trailing plants for rock work, etc.; flowers bright blue, foliage glossy green, margined or blotched with creamy white. They grow in almost any soil and when once established spread rapidly; are easily propagated by division and will in time form a perfect carpet where planted. Each, postpaid, 10c.; doz., 75c.

TURKEY'S BEARD.

This although not a new plant is one of great beauty and fine appearance; one of the most valuable for ornamental purposes either for the garden or the lawn. Perfectly hardy; blooms every year in June. The foliage is remarkably neat and pleasingly crowned with from three to four large flower spikes, 2 feet high, each spike bearing a handsome flower, 6 inches long and 2 to 3 inches wide. Flowers are lovely white and remain a long time. This plant has attracted much attention in England the last few years having been grown and greatly admired by the Royal Horticultural Society as well as in private parks and gardens. Each, 20c.; 3 for 50c.

THE GEM COLLECTION OF HARDY PERENNIALS.

Aquilegia, double,
Achillea, The Pearl,
Delphinium Formosum,
Chrysanthemum Maximum,
Gaillardia Templeana,
Hardy May Pink,
German Iris,
Hollyhock,
Helianthus,
Pæonia Fragrans,
Phlox Jeanne d'Arc,
Yucca Filamentosa.
 Gem Collection, 12 plants, prepaid, \$2.00

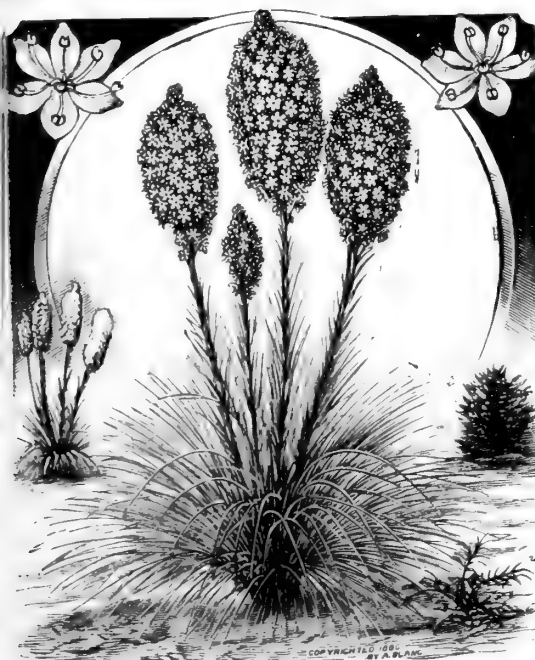


PENTSTEMON.

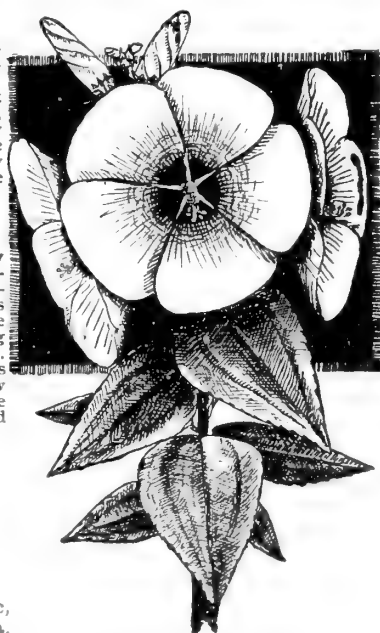


HOLLYHOCK.

"The London Garden" says: "Five splendid masses of Turkey's Beard (*Xerophyllum*) were exhibited at the Royal Botanic Show and were the prettiest things among hardy plants. Is like an Asphodel in habit and very beautiful when forming a tuft of grassy leaves, from which rises up a stem 1 to 3 feet high terminated by a dense raceme of creamy white flower."



TURKEY'S BEARD (*XEROPHYLLUM ASPHODELOIDES*.)



HIBISCUS (CRIMSON EYE.)



SMALL * FRUITS.



* STRAWBERRIES. *

Any soil that will grow corn will grow Strawberries, but to grow big berries and lots of them, manure or fertilizers must be used freely. Dig the ground 12 to 18 inches deep (the roots have been known to go three feet down), then plant two feet apart each way; as soon as growth commences, mulch or cover with strawy manure; keep clean; do not let weeds or grass grow. In December cover the plants and bed with long straw, to be removed not too early in Spring. In due season you may rest assured of large, luscious berries.

Varieties marked (P.) have imperfect flowers; they will not produce well unless every fourth or fifth row or plant, is a perfect flowering variety, as are all not so marked. Thus planted, the (P.) sorts are the most productive.

Dozen prices include prepayment by mail; 100 rates at purchaser's expense; if wanted by mail, add 50c. per 100 for postage. Price, unless otherwise noted, 10c. each; 6 at dozen rates; 25 at 100 rates.

THE EDGAR QUEEN.

This valuable variety originated in Paris, Ill., that section of the state which furnishes daily during the strawberry season, train loads of fruit for the Chicago market. The Edgar Queen was selected from five thousand seedlings, has been tested four years and surpasses all other varieties in size, quality and yield. On one two-year old plant were counted 179 ripe and green berries. Color, bright red; berries firm; season medium; a splendid grower with large, healthy foliage. Mr. B. O. Curtis who raised the Edgar Queen says: "It is larger, more productive and finer in quality than either Jessie or Bubach." We offer this grand variety at a moderate price. Dozen, postpaid, \$1.00; per 100, \$5.00.



THE EDGAR QUEEN.

DAVENPORT, IOWA. The Edgar Queen plants are healthy and thrifty and I expect them to make a good showing next June. **WM. H. HOLMES.**

PARIS, ILL. The Edgar Queen plants have made a wonderful growth the past season, and I look forward to the fruiting season of '91, expecting to see them loaded with the largest and finest berries, as I saw them on the grounds of the originator in 1889. **W. B. CALDWELL.**

PARIS, ILL. Words cannot describe the beauty, excellence and size of the Edgar Queen. To realize its value the fruit should be seen and tasted. **SAMUEL GRAHAM JR.**

Dr. Peter Collier, Director New York Agricultural Station, says. "Of remarkable vigorous growth; foliage, dark green, free from blight. Makes a large number of runners."

ROCHESTER, N. Y. "One of the most promising in appearance of all the new varieties." **GREEN'S NURSERY CO.**

PARIS, ILL. I saw the Edgar Queen in the fruit season 1889. One plant bore nine spikes of berries, many of which measured two inches in diameter. The vines were vigorous, strong, and loaded with fruit. **ADRIEL S. McCORD.**

Bubach's No. 5. (P).—Fruit large, good quality, prolific. Wonderful stories are told of its yield; popular in Chicago market. Doz., 35c.; per 100, \$1.00. **Charles Downing.**—An old variety but one of the best; flavor not excelled; for home use; midseason. Per doz., 35c.; per 100, \$1.00.

Cumberland Triumph.—Scarlet, very large, high quality; midseason. Very attractive and lasts a long time. Doz., 35c.; per 100, \$1.00.

Glendale.—A valuable late sort; a rank grower; fruit large, good quality, very firm. One of the very best. Per doz., 35c.; Per 100, \$1.00.

Haverland. (P).—Long conical berry; bright red; very productive, good quality, moderately firm. Doz., 50c.; per 100, \$1.50.

Kentucky.—Fruit large and moderately firm; a good yielder. Fine late variety. Doz., 35c.; per 100, \$1.00.

JESSIE.—One of the most perfect berries grown, large, prolific, free from rust; in all respects good, bright red; midseason. Per doz., 35c.; per 100, \$1.00.

Park Beauty. (P).—Larger and better than Crescent Seedling. Early, prolific. Per doz., 35c.; per 100, \$1.00.

Sharpless.—Largest size, mild flavor, healthy grower, fruit always brings highest price in Chicago market. Quality good, ripens late. Per doz., 35c.; per 100, \$1.00.

Wilson's Albany.—Well known standard sort. Early to medium. Should be in every collection. Per doz., 35c.; per 100, \$1.00.

Warfield's No. 2. (P).—An Illinois variety, more of which is being planted for market and garden purposes than any other; dark crimson, fine flavor, very firm. Doz., 35c.; 100, \$1.00; 1000, \$6.00.

Extract from August 1890 bulletin, Maryland Agricultural Experiment Station: "Warfield No. 2 was the best berry we grew this season, excelling all others in productiveness and appearance. Fruit hangs on until nearly black."

A STRAWBERRY COLLECTION.

100 in 4 best sorts, our choice, not prepaid, \$1.00.

STRAWBERRY PLANTS.

FOR SUMMER AND FALL PLANTING.

Pot Grown plants, ready for shipment after August 1st, by express or freight, the only safe method of forwarding.

Best varieties, doz., 50c.; 100, \$3.00.

New varieties, price on application.

Field or Layer Plants, ready for shipment after September 15, at prices quoted in catalogue.

WILTON CENTRE, ILL., Oct. 14, '90. The plants you sent are growing nicely. You send splendid plants, and we shall patronize you when we buy again. **GRACE S. CRAWFORD.**

UTICA, N. Y. Every thing was quite satisfactory; many thanks for extras. **THOS. R. CULLING.**

~ RASPBERRIES. ~

Plant in rows 5 feet apart, 3 feet apart in the row; cut out the old wood as soon as the crop is gathered so that the young canes may have every chance to mature. For best results, dig a trench two feet deep, and of the same width; half fill with well rotted manure, then with best top dirt; thus prepared, a bed will last for years and give enormous crops of fruit.

Dozen prices include prepayment by mail; plants at 100 rates, by express or freight at purchaser's expense. Unless noted, 10c. each, 6 at dozen rates and 25 at 100 rates.

Cuthbert.—Bright red, very large, extremely prolific; hard standard sort; best for family use, upright growth. Doz., 50c.; 100, \$1.35.

Hansell.—The earliest red; good market sort. Extremely prolific; largely planted. Per doz., 50c.; per 100, \$1.35.

Marlboro.—The largest red, most hardy, vigorous and productive. Best red raspberry for the north. Per doz., 50c.; 100, \$1.50.

Gregg.—Largest black cap, enormous bearer, best. An old favorite sort. Per doz., 50c.; per 100, \$1.35.

Golden Queen (New).—A fine new yellow, very delicate flavor, a most delicious dessert fruit, very productive, and much superior to the Brinckle's Orange. Each, 15c.; doz., 75c.; 100, \$4.00.

Johnson's Sweet.—By some thought to be the coming black cap, large, very productive, extra quality. Each, 15c.; doz., \$1.00.

Souhegan.—Early, very prolific, larger and better than Doolittle's Improved. Fruit black, fine quality. Doz., 50c.; 100, \$1.00.

OTAHEITE ORANGE.

A grand pot plant of great beauty, only suitable as a conservatory ornament in the North. It is a dwarf variety which is easily grown, blooming and fruiting in pots when quite small. The flowers are very numerous and rich in perfume. It blooms quite freely in winter, and at other seasons of the year. Each, 50c.; Doz., \$5.00.

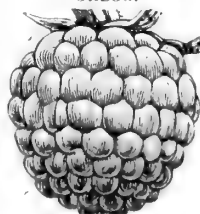
POMEGRANATE.

Pomegranates are plants of much beauty, producing at various times a profusion of blossoms which are as large and double as a Camellia. The fruit is very curious. These plants are hardy at the south. For other latitudes they should be wintered in the cellar and started afresh in the spring. They begin to bloom when quite small and continue growing until they become several feet in height. See greenhouse plants; 3 varieties, large plants. Each, 25c.; doz., \$2.50.

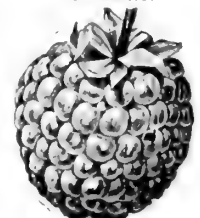
LAKE GEORGE, N. Y., Oct. '90. Plants and bulbs arrived in good condition. I am much pleased with size and excellence of both. **CAPT. JOHN J. PHELPS.**



GREGG.



CUTHBERT.



GOLDEN QUEEN.

BLACKBERRIES.

—Plant in rows eight feet apart four feet apart in the row.
Dozen prices include postage; plants at 100 rates by express at buyer's expense. Unless noted, 10c. each; 6 at dozen, 25 at 100 rates.

Snyder.—The old reliable; fruit rich and melting; no core, very hardy; best for rich black soil. Per doz., 75c.; per 100, \$2.00.

Stone's Hardy.—Best variety for the North; enormous bearer; fruit rich and melting; Doz., 75c.; per 100, \$2.00.

Wilson Jr.—Superior to the well known Old Wilson; this and preceding, succeed best in the Ohio Valley and the South. Per doz., \$1.00; per 100, \$3.00.

GRAPES.—Any fairly rich good soil, not too wet, will grow the following list of berries size of Concord. Best white Grape. One year, each, 50c.; 2 year, each, 75c.

Brighton.—Dark red, bunch large, berry medium size, skin thin, flesh tender quality best; 1 year, each, 20c.; doz., \$2.00; 2 year, each, 30c.; doz., \$3.00.

Concord.—Well known, reliable; 1 year, each, 10c.; doz., \$1.00. 2 year, each, 15c.; doz., \$1.50.

Duchess.—Pale greenish yellow, ripens soon after Concord. Bunch compact, berry medium; most delicious flavor. One year, each, 15c.; doz., \$1.50. 2 year, each, 20c.; doz., \$2.00.

Eaton.—New, hardy. Clusters very large, sometimes weighing 20 ounces; splendid quality. One year, each, 50c.; 2 year, each, 75c.

Moore's Diamond.—New. Greenish-white; compact bunches

DEWBERRY. Lucretia.

—The Dewberry does not sprout, therefore is especially adapted for garden culture. Fruit very large often 1½ inches long and 1 inch in diameter; soft, sweet and luscious without any hard core. The fruit ripens before the ordinary Blackberry. The plant is hardy and immensely productive. Mr. Caywood, the well known horticulturist, said: "The Lucretia is several days earlier than any Blackberry." Doz. 75c.; 100, \$3.00.

berries size of Concord. Best white Grape. One year, each, 50c.; 2 year, each, 75c.

Moore's Early.—Black, bunch medium, excellent quality, very early; a week or more before Concord. 1 year, each, 20c.; doz., \$2.00. 2 year, each, 25c.; doz., \$2.50.

Niagara.—A fine white Grape; bunch large; 1 year, each, 30c.; doz., \$3.00. 2 yr., each, 40c.

Early Victor.—Black, earlier than Concord, berry medium. 1 year, each, 20c.; doz., \$2.00. 2 year, each, 30c.; doz., \$3.00.

Worden.—Black. 1 yr., ea., 20c.; doz. \$2. 2 yr., ea., 30c.; doz., \$3.00.

Wyoming Red.—Early. 1 year, each, 25c.; doz., \$2.50. 2 year, each, 30c.



SNYDER.



DEWBERRY.

CURRENTS.

Currents and Gooseberries are the hardiest of small fruits and should have a place in every garden. Plant 3 feet apart each way, in good rich soil; an annual top dressing of stable manure will increase the size and yield of the fruit. The Currant worm, unknown in many parts of the West, is easily killed off by two or three applications of powdered hellebore.

One year Plants at dozen rates are prepaid; all others at purchaser's expense. 10 cents each unless noted; 6 plants at dozen rates; 25 at 100 rate.

Our 2 year plants are all strong and stocky.

New Crandall.—A wonderful new giant Currant, producing berries ½ to ¾ inches in diameter, shiny bluish black in color, and often mistaken at first sight for Concord grapes. It is marvelously productive, exceeding any other small fruit in yield; seeds few, cooking quality unsurpassed; bushes similar to the common currants, but much larger, attaining a height of 7 or 8 feet; shoots grow very rapidly, often 5 feet in a single season; remarkably hardy, and quite free from the ravages of insects and currant worms; fruit easy to pick, and keeps very long in marketable condition. Good plants, each, 25c., postpaid; doz., \$3.00.

Fay's New Prolific.—The best red Currant, larger and more prolific than any other; over \$20,000.00 have already been paid to the owners of the stock as royalty. We quote from the Forest and Garden. "Some four years ago, when Fay's Prolific was announced, the claims for it were regarded as extravagant, but now it has been duly tried, it has been found to be one of the few new fruits which justifies the rosy promises of the introducer." Our stock is from the introducer. 1 yr., ea., 25c.; doz., \$2.50. 2 yr., not prepaid, ea., 25c.; doz., \$2.50; 100, \$15.00.

Cherry.—Very large, immensely productive, most popular sort. 1 yr., doz., 75c.; not prepaid, 100, \$4.00; 2 yr., per doz., \$1.50.

Gloire des Sablons.—A very pretty novelty; currants striped red and white. 1 yr., each, 15c.; doz., \$1.00.

Red Dutch.—Old standard sort of which millions have been planted; very sweet and productive. 1 yr., doz., 50c.; not prepaid, per 100, \$3.00; 3 yr., doz., \$1.25.

White Dutch.—Similar to Red Dutch, except in color. Popular. 1 yr., doz., 50c.; not prepaid, 100, \$3.00; 2 yr., doz., \$1.25.

Naples.—The well known black currant. 1 yr., doz., \$1.00, postpaid.

GOOSEBERRIES.

Butte City, Mont., Oct., 14, '89.—I am very well satisfied with the Gooseberries you sent me last spring. Mrs. C. Nissler.

For cultural directions, see remarks on Currants.

Downing.—The largest of our native Gooseberries; pale green, very sweet. 1 yr., each, 15c.; doz., \$1.50; per 100, not prepaid, \$6.00.

Houghton.—Well known, medium size, pale red; very productive. 1 yr., per doz., \$1.00; per 100, \$4.00.

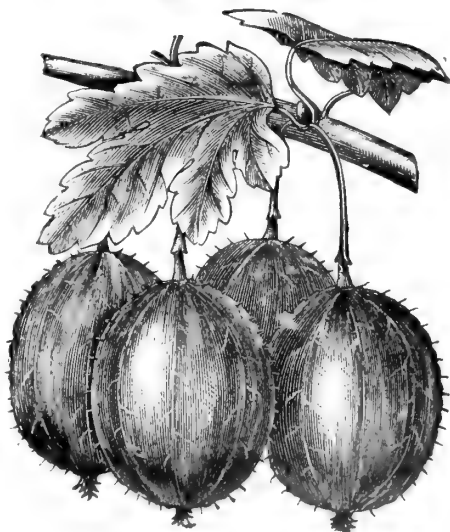
Industry.—An English variety which has proven a most desirable addition to our native sorts. The fruit is very large, oval, dark red, and of a rich and agreeable flavor.

Mr. Temple, of Mass., writes of it: "The flavor of these great berries is equal to that of a fine plum, and they are used as a fine dessert fruit. They are ready for market fully three weeks earlier than any other kind and when fully ripe are of the extraordinary size shown. The color when ripe is tawny red." Messrs. Elwanger and Barry say: "Although this is a foreign variety it has succeeded admirably on our grounds, where it has fruited extensively for several years. We can confidently recommend it, both for the garden of the amateur and the market plantation." 2 yr., each, 25c.; doz., \$2.00; per 100, \$12.00.

STOUGHTON, WIS., April 1, '90. The Industry Gooseberries came all right and were the choicest lot I ever bought. G. C. WATSON.
STANWOOD, IOWA, Sept. 16, '90. The plants both Strawberry and Grape, promise to be all you said about them. C. H. HUNT.



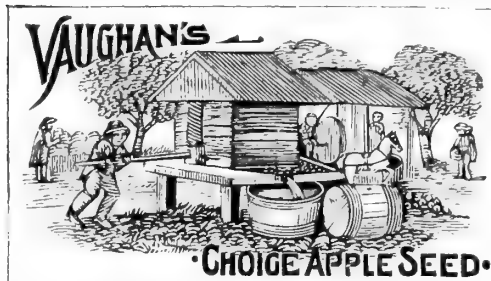
NEW CRANDALL CURRANT.



INDUSTRY GOOSEBERRY.

RUSSIAN MULBERRIES.

A most valuable fruit and ornamental tree from Western Russia; perfectly hardy, rapid growing and fruits when only two years old. A very showy lawn tree as fruit nearly covers the tops and remains in season a long time. Those who have these say they would not be without them for ten times their cost. Young trees, each, 30c.; 7 for \$1.00, postpaid. Seed, pkt., 10c.; oz., 20c.; lb., \$2.00.



TREE SEEDS.

ONE POUND LOTS AND LESS FREE BY MAIL. LARGER LOTS AT BUYER'S EXPENSE.

HOW TO GROW THEM.

In order to preserve seeds of CONIFERS and other EVERGREEN TREES, it is best to keep them in perfectly dry sand until the time of sowing. For this latitude the seed should be sown thinly, as early in the spring as the ground can be worked, in beds of fine sandy loam. Cover to the depth of about the thickness of the seed, and press the beds gently with the back of the spade to firm the earth around the seeds. Great care must be taken not to give too much

water, as the young plants damp off very easily. Water with a very fine rose, but never so that the ground becomes soggy. Some shade must be used to protect the young plants from the hot, drying sun and winds, and also to keep the birds from destroying them. Seeds of the rarer sorts may be sown in cold frames or boxes; if in cold frames, the sashes should be shaded and the frames raised at the corners, three or four inches to allow the air to circulate freely. Keep the young plants well weeded, and allow them to remain one to two years before transplanting.

Apple Seed.—May be planted in early spring. It is very important that the seed first be mixed with damp sand and frozen, after which care must be taken that they do not become dry before planting. The soil should be deep, rich and well prepared; and seed sown in rows 2 feet apart. (Bushel 40 lbs.). Per lb., 45c.; 10 lbs., \$3.00.

Box Elder. (ACER NEGUNDO).—It is the easiest grown and most generally successful of all Tree seeds commonly planted, succeeding with every one under ordinary care. It is a most rapid grower and makes a very leafy shade; it will produce the largest amount of fuel in the shortest time of any of our hardy trees. Soak the seeds before planting. We have a splendid stock of 1890 crop, gathered and cleaned especially for our trade. A bushel contains 10,000 seeds; (bush, 10 lbs.). Price per ¼ lb., 10c.; 10 lbs., not prepaid, \$1.75; 50 lbs., \$5.75; 100 lbs., \$11.00.

ARBOR VITÆ, American White Cedar. (THUYA OCCIDENTALIS).—A small evergreen, excellent for hedges as windbreak; wood is very durable. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.80.

APRICOT, Russian. (PRUNUS SIBERICA).—The hardest of the Apricots. In its native land it flourishes as far north as the mountains of Dahuria in Siberia. It was brought to the United States about 1875 by the Russian Menonites, and was extensively planted by them in their Kansas and Nebraska settlements. Fruit medium size, and of the best quality. Perfectly hardy, and a valuable tree. Oz., 10c.; ¼ lb., 20c.; lb., 60c.

ASH, White. (FRAXINUS AMERICANA).—This is one of the most valuable varieties for forest planting. It is adapted to a wide range of soil and climate. It is an extremely rapid grower, often attaining a growth of six feet in a single season. Its lumber brings a high price in the market and it is becoming very scarce. It is one of the easiest varieties to transplant or grow from seed, requiring no more skill or care than the ordinary crop of white beans or Indian corn, with the exception that the seed usually lies dormant the first season, but it is sure to grow the next year if the ground is not disturbed. Oz., 5c.; ½ lb., 10c.; lb., 30c.; 5 lbs., not prepaid, 90c.

BIRCH, White. (BETULA ALBA).—A very ornamental tree, succeeding best in a moist soil and climate. Sow in new ground and do not cover, but press into the soil. Pkt., 5c.; oz., 10c.; ¼ lb., 35c.; lb., \$1.00.

CATALPA SPECIOSA.—The hardy western variety, now being very largely planted. It is of very rapid growth, making one of the best timber trees. We recommend it as far north as temperature belt 75°. (See our corn map). Sow thickly in rows about four feet apart, in April or May, and cover to the depth of one-half inch, and keep free from weeds. Transplant to their permanent places the next spring, and cultivate for two seasons. A pound contains 16,000 to 22,000 seeds. New crop seed just gathered, which may be relied on as the true GENUINE HARDY VARIETY. Oz., 10c.; ¼ lb., 25c.; lb., 80c.; not prepaid 5 lbs., \$3.75.

CATALPA, Teas' Japanese Hybrid.—The most beautiful of all the Catalpas. Its massive and gigantic proportions resemble the productions of the tropics, while it has proven perfectly hardy throughout the West. Very profuse bloomer; very rapid grower. Try it South of CORN BELT 73°. 4000 seeds in an ounce. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

CEDAR, Red. (JUNIPERUS VIRGINIANA).—Grown in all sections; very valuable timber; a fine ornamental tree. Stands dry, hot winds, and for wind-breaks around the farm house and stock yards, as well as fence-posts, is invaluable; also being symmetrical in growth and readily shaped with shears, it is one of the most beautiful yard trees. After properly planting out, the Red Cedar requires less care and will stand more neglect than any other evergreen. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

FIR, Balsam. (ABIES BALSAMEA).—A small tree, native to our northern border and Canada. It is in great demand for ornamental purposes. Its growth is regular and symmetrical, assuming the conical form when very young. It grows rapidly and succeeds in a great variety of soils. Its foliage, of a beautiful rich green, retains its color through the severest winters. A medicinal substance known as Canada Balsam, is obtained in large quantities from this tree. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

SPIDER PLANT.

A plant recently brought to notice as a wonderful honey-producer; grows about two feet high and produces a great abundance of bloom from middle of June until October, but only during the morning hours as late as 8 to 10 and in the evening after 5 p. m. The sight of a whole plant loaded with honey is enough to set any bee keeper crazy. With plants set three feet apart each way, one acre will contain about 5,000 plants, and will yield 60 gallons of honey during the season when in bloom. As bees do not work on the Spider Plant except in the morning and evening, the Simpson Honey Plant should go with it. One ounce will produce enough plants for one acre. Pkt., 10c.; oz., 40c.; lb., \$4.00. One ounce each of Spider Plant and Simpson's Honey plant for 65c.

TWO HONEY PLANTS.

SIMPSON'S HONEY PLANT.

A large, coarse-growing plant from 4 to 9 feet high, branching top covered with innumerable little flowers, which are dark purple or violet at the outer part and lighter as it approaches the seed ball. The ball has an opening in it at the base of the leaf and is hollow. The hollow is filled with honey, and so rapidly is deposited, that in two minutes after being licked out by a bee, it is again filled with a shining drop of nectar. The process can be kept up all day long. So freely does this plant yield honey, that a branch removed and given a sharp shake the honey will fall in drops. It commences to bloom about the 15th of July and remains unfrost. Bees work on it from morning till night. One ounce will produce enough plants for one acre. Pkt., 10c.; oz., 40c.; lb., \$4.00.





VAUGHAN'S CHICAGO PARKS LAWN GRASS.

A BEAUTIFUL LAWN, with its close, velvety turf, is a most essential feature in the adornment of all suburban homes—without it the finest flowering plants and bedding seems insignificant, while with it, handsome grounds are assured, even with no other adornment. Second only to that prime requisite, GOOD SEED, is time of sowing, quantity to use, preparation of soil, etc. AS A GRASS SEED MARKET Chicago is known to be the greatest in the world, supplying many foreign countries as well as much of the United States.

Chicago Parks Mixture: If to go by mail, add 8 cents per lb.
Finest Quality, lb., 25c.; 4 lbs., \$1.00; bush., \$2.75; 3 bush., \$7.50.
Good Quality, lb., 20c.; bush., \$2.40; 3 bush., \$6.75.
BLUE GRASS, Fancy, lb., 30c.; bu., (14 lbs.) \$3.50. [Write for special rates.]
Extra Clean, lb., 25c.; bush., \$3.25.
RED TOP, Extra Clean, lb., 15c.; 5 lbs., 70c.; bush., (14 lbs.) \$1.00.
WHITE CLOVER, Extra Quality, 1 lb., 30c.; 4 lbs., \$1.00.

HOW TO MAKE A LAWN.

Some previous cultivation, or at least a thorough turning over should be given. A clayey loam is the best soil foundation for a good lawn. Let the surface be graded to the level wanted in all parts, and well rolled—a light raking following this will prepare for the seed sowing, which should be done as early in spring as the ground can be worked, provided, the ground has not already been prepared in the fall. Three to four bushels per acre should be sown; the latter amount is best, for the young plants are but small, anyway, and if thick, cover the ground better and make a smoother and more even turf. Never sow oats or other grains, you can't assist a weak plant by crowding it with a strong one. Our seed which we believe to be as pure as can be found anywhere, is of the best varieties, best suited for even and permanent growth; they are carefully cleaned and as free as it is possible to make them from all weeds. We believe our Chicago Parks Mixture of Extra Clean Seeds is unsurpassed.

LAWN FERTILIZER.

Our LAWN FERTILIZER, Bone and Phosphates, (see page 95) is a most desirable article for supplying the soil with requisite food for a luxuriant growth of grass, and avoiding all the objectionable features of animal manure, as well as weeds, seeds, etc. Our customers who have had it once will have no other. It can be applied either in the Spring, Summer or Fall, at the rate of one pound to sixteen square feet. Price, lb., 10c.; 10 lbs., 50c.; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00.

RECLEAVED GRASS AND CLOVER SEEDS.

IF TO GO BY MAIL, ADD 8 CENTS PER POUND FOR POSTAGE.

THESE PRICES are liable to market changes daily, but include bags at rate here given. When written quotations based on market for the day are sent, they DO NOT include bags, for which in ordering add 20c. each.

ALFALFA OR LUCERNE CLOVER (MEDICAGO SATIVA).

THE demand for this great forage plant which is so extensively grown on the Pacific Coast that it is sometimes called "California Clover," has increased wonderfully throughout all the Southern and Western States, and has been much planted in the Middle States. It is important that the seed be sown in rich soil and thoroughly cultivated from weeds for the first summer. It gives a fair yield the first season and the second is enormous. It is said to thrive best in loose soil as the roots run deep. It stands drouth exceedingly well. Sow 8 to 25 lbs. per acre. Per lb., postpaid, 30c.; not prepaid, 5 lbs., 75c.; bush., (60 lbs.) \$7.25; 2 bush., bag included, \$14.00.

JAPAN CLOVER.—A low perennial of spreading habit, adapted to withstand excessive drouth. It makes a fair hay, and stock eat it readily while green. It flourishes on the poorest soil. We do not recommend it North of Corn Belt 73°. Sow 15 lbs. per acre. Per lb., 35c.; not prepaid, 10 lbs., \$2.50.

WHITE DUTCH CLOVER.—Grows naturally in pastures in almost any soil and situation, but thrives best in damp locations. Sow 5 lbs. to the acre. Per lb., 30c.; 4 lbs., \$1.00; bush. (60 lbs.), write for price.

MEDIUM RED CLOVER.—Excellent for pasturage or hay; a necessity in all grass mixtures, and valuable as a green manure. Sow 5 to 20 lbs. per acre if used alone. Per lb., 20c.; 5 lbs., 75c. Per bush., write for prices.

ALSIKE, or SWEDISH CLOVER.—Trifolium Hybridum. This is superior to the red clover in feeding qualities, furnishing more flesh and fat forming materials. Sow 6 lbs. to the acre. Per lb., 30c.; 10 lbs., \$2.00. Prices on larger lots on application.

RED MAMMOTH CLOVER or PEA VINE.—It is a vigorous grower, with large coarse stalks, 5 to 6 feet high, used largely for plowing under for manure. Per lb., 20c.; 5 lbs., 75c. Write for bu. prices.

COMMON MILLET.—Sow ½ bu. to the acre. Per bu., (50 lbs.) 80c.

TALL MEADOW OAT GRASS.—Used for soiling. It succeeds well in sandy lands and owing to its long fibrous roots, stands cold and drouth well. Sow 3 bu. to the acre. Per lb., 25c.; bu., (14 lbs.) \$2.80.

GERMAN or GOLDEN MILLET.—Sow 25 to 35 lbs. to the acre. Per lb., 10c.; bu., (50 lbs.) \$1.

MEADOW FESCUE, or English Blue Grass.—One of the best grasses for hay and permanent pastures; it stands drouth admirably, and thrives on any kind of soil. Sow 2 bu. per acre. Per lb., 20c.; bu., (14 lbs.) \$1.65.

SWEET VERNAL, Annual.—Lb., 15c.; 10 lbs., \$1.35.

MEADOW FOXTAIL.—It grows best on rich, moist or even wet soils, and is one of the most reliable grasses for permanent pastures. Sow 3 bu. to the acre. Per lb., 35c.; 10 lbs., \$2.75.

WOOD MEADOW GRASS.—Succeeds best in moist, shaded ground and is especially adapted for wood pastures. Per lb., 35c.; bu., (14 lbs.) \$3.25.

ENGLISH or PERENNIAL RYE GRASS. It should be cut before blooming. Sow 25 to 30 lbs. to the acre. Lb., 12c.; bu., (25 lbs.) \$2.25.

ITALIAN RYE GRASS.—Lb., 12c.; 10 lbs., \$1.00.

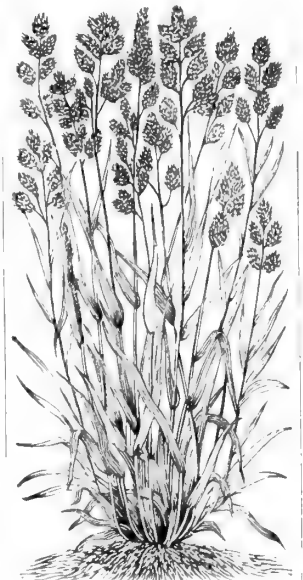
CRESTED DOG'S TAIL.—Lb., 35c.; 10 lbs., \$3.25.

JOHNSON GRASS.—Lb., 15c.; 10 lbs., \$1.00.

CREeping BENT GRASS.—Sow 2 bu., per acre. Per lb., 30c.



ALFALFA OF LUCERNE CLOVER.



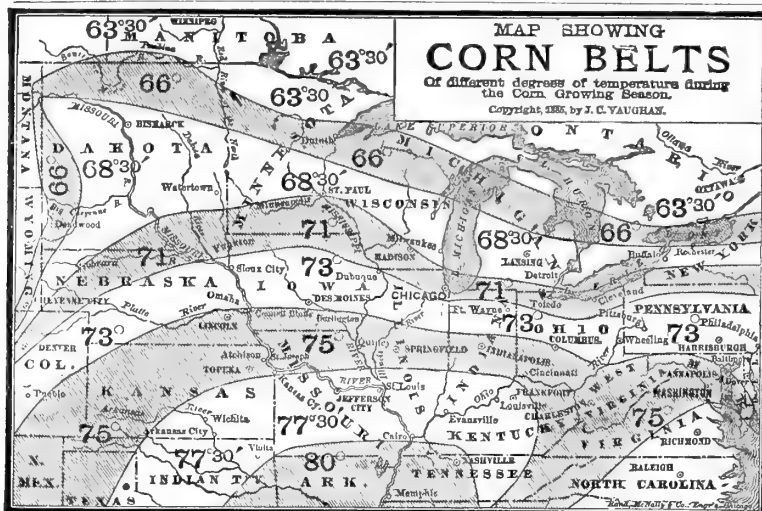
ORCHARD GRASS.

TIMOTHY.—Also called Herd's Grass. Sow 15 to 20 lbs. to the acre. Per lb., 10c.; 5 lbs., 40c.; bu., (45 lbs.) on application.

ORCHARD GRASS.—Excellent for haying and grazing, grows in almost any soil containing sufficient clay and not too much water. Its long, deeply penetrating and fibrous roots enable it to grow vigorously during drouths. Sow 2½ to 3 bu. per acre. Per lb., 15c.; bu., (14 lbs.) \$1.85.

RED TOP GRASS.—It thrives well in almost any kind of soil, and produces a very firm sod. Sow 2 bu. per acre. Per lb., 12c.; bu., (14 lbs.) \$1.00.

KENTUCKY BLUE GRASS.—Also known as June and Meadow grass. Very desirable for pasture and lawn. Sow 3 bu. per acre. Extra Clean, per lb., 25c.; bu., (14 lbs.) \$2.25. Fancy per lb., 30c.; bu., \$3.75.



We have long made a specialty of Fire Dried Seed Corn, but have never before been able to secure a supply of first-class seed (in ears) at the prices we offer at for 1891. We believe it should double our trade in Seed Corn when the advantages we can offer are considered, and to which we invite your attention.

NORTH STAR YELLOW DENT.—This has always been a leading variety with us, no doubt because it was especially suitable to CORN BELT 71°, which covers more of our immediate territory than any other single belt. We have therefore arranged each season for its growth usually from our own stock, and saved from the crop a very careful selection to meet our wants. It is a bright yellow Dent, 12 to 16 rows, with deep grain and small red cob. It ripens in about one hundred days, and has been carefully improved with a view to keep the ears of the largest possible size, and yet fully mature the crop in good season throughout Southern Minnesota and Dakota. It is exactly adapted for a general crop in CORN BELT 71° and a splendid sort for early maturity in all belts south of that. We know it to be a splendid cropper and none will go wrong in planting it as stated above; though for BELT 73° a larger corn can of course be grown, such as our Chester County, Big Buckeye or Leaming. As stated above we have a large crop, and name the following very low prices: 6 ears, 25c.; peck, 25c.; bush., \$1.50; 5 bush., \$6.50; 10 bush., \$12.00; all in gunny bags of 1 bush., 70 lbs. selected ears. If wanted shelled, we will shell it from same stock and ship it in grain bags at same prices (quart shelled, post-paid, 45c.)

WISCONSIN WHITE DENT.—Very similar to our Wisconsin Yellow, except in color. It is not a pure white; the sides of the grains are tinted yellow and the tips of them reddish, though the top of the kernel is pure white. It will ripen anywhere in CORN BELT 71°, and is the best early White Dent we have seen. Price, 6 selected ears, 25c.; peck, 50c.; bush., \$1.60.

PRIDE OF THE NORTH No. 23.—This variety originated with Mr. Goddard in Northern Iowa, and when this corn was first sent out it was not true to type, but our stock having been carefully selected shows a great improvement over the first, and is now ONE-HALF LARGER than usual stock of this. It is very early and is generally ripe and fully matured in 90 days of good corn weather. It yields well and has a deep, oily kernel and a small cob. It weighs sixty pounds to the measured bushel, and has often but eight pounds of cobs in a seventy pound bushel of ears. It is generally a safe sort to plant in CORN BELT 71°. Price, 6 ears for 25c.; peck, 50c.; bush., \$1.50; five bush., \$7.00.

SMUT NOSE OR RED BLAZED.—Our stock has been grown and carefully selected in the extreme northern part of Michigan, and should mature in any part of Minnesota and Dakota. Price, selected ears, 6 for 25c.; peck, 65c.; bushel, \$2 00.

LONGFELLOW FLINT.—This beautiful yellow variety can hardly be excelled by any of its class and size, having been carefully selected for many years for long handsome ears and small cob. It frequently bears two ears. We have secured a very select strain of this from a reliable Connecticut seed grower, and offer SHEFFIELD CORN as follows: Per pkt., 10c.; quart, 25c.; peck, 60c.; bush., \$2.00; 2½ bush., \$4.50.

BRAZILIAN FLOUR CORN.—A white variety of maize from Georgia; ears 7 to 9 inches long; is said to make as fine and desirable a flour as wheat. The ears are good for roasting, and it makes a good fodder in the north where it will not mature a crop. We can not recommend it to ripen north of CORN BELT 75°, though it will make good fodder and is worth trying. Large pkt., 10c.; lb., postpaid, 30c.; not prepaid, qt, 30c.; peck, 65c.; bu., \$2.

REDDISH FLINT, King Philip, No. 22.—(FOR CORN BELT 71° AND NORTH.)—One of the oldest and best known of the Flint varieties. We have again, as usual, through-bred Eastern-grown, seed of this kind. Pkt., 10c.; bu., shelled, \$2.25.

GOLDEN DEW-DROP.—A handsome Connecticut-grown, bright yellow 8-rowed variety of rich color and prolific habit, suitable for CORN BELT 71°; price same as King Philip.

RURAL THOROUGHBREDED FLINT.—A very handsome type of many years selection. Wisconsin grown seed from New York stock. 6 Ears, 25c.; peck, 60c.; bush., \$1.75.

JAPANESE STRIPED MAIZE.—A handsome foliage plant for lawns and borders; much used in parks. Each, 10c.

CHESTER COUNTY MAMMOTH No. 17.—One of the best, largest growing and most prolific Dents for its section (Belt 73°). Rows 16 to 24 in number with deep grain; cob medium. Weight 53 pounds per measured bushel, and will yield, under good cultivation, 100 to 150 bushels of shelled corn to the acre. It is grown in Chester County, Pa., for our trade; it is the same excellent seed we have sold for many years. Our strain of this well known sort is smaller, earlier, shorter in stalk than most Chester county corn. It will certainly please our customers in CORN BELT 73°, and with a fair season farther north. Will shell it for customers if wanted. 6 ears for 25c.; peck, 60c.; bush., \$1.90.



NEW BRAZILIAN FLOUR CORN

SEED CORN.

EARS OF CORN.—We undertook when commencing our Seed Corn business to supply every variety in the ear. We have great faith in it, from the fact that we have never yet found a corn grower who did not prefer to buy his corn in that condition. It is no easy matter to handle corn in this manner, as it demands extra care and work in selecting, curing, storing and in shipping, but the result must be a gain of from 30 to 50 per cent. to the planter. We have tested the varieties we sell, and know they will mature where recommended. Every variety has been selected with reference to its most valuable characteristics—earliness, depth of grain, color of the cob, prolific habit, or other desirable qualities. The descriptions given show exactly the BELT in which each variety can be matured. Do not believe that any one sort, however desirable, is suitable for any large area of country. Our work of past year has placed us in position to fill all orders carefully, intelligently and with the BEST SEED OF THE RIGHT SORT TO MATURE with you—for every planter should plant the very LARGEST KIND WHICH HE IS REASONABLY SURE TO MATURE.

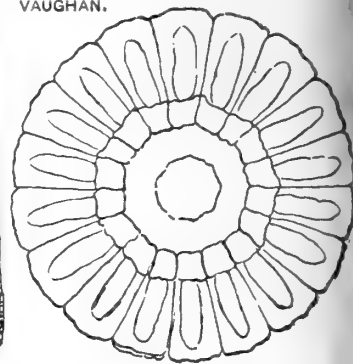
BY FREIGHT we usually ship in gunny sacks containing one bushel each. No charge for sacks or delivery to depot.

TO AVOID DELAY.—When the time is short, late in the season, customers will do well to give at the bottom of their order, their SECOND CHOICE, in case the sort they want is sold out, or state if we may send the variety best adapted or return the money.

OUR CORN BELT map shows the central portion of the United States divided into sections about 100 miles wide. By referring to such Belts we can best show our customers where the kinds offered will mature. It will be readily noticed that these lines of equal heat during corn growing weather do not correspond with the parallels of latitude, as many suppose.



**NORTH STAR.
VAUGHAN.**



W size
ACCURATELY ENGRAVED FOR REPORT N. Y. AGL.
EXP. STATION.

BIG BUCKEYE, No. 43.—Suitable to south half of CORN BELT 73°. A deep golden yellow, quite even in type, and has yielded where originally produced (Clark Co., Ohio), 100 bushels per acre. Our crop has been grown in Central Illinois, and is acclimated and suited to sections located as indicated above. Ears large, about 22 rows. Price, peck, 60c.; bushel, \$1.75.

HICKORY KING.—A very distinct white Dent of Southern origin. Ours has been grown for two seasons in CORN BELT 74° and in Illinois. We think it well adapted for any part of that belt, and offer good seed in selected ears as follows: 6 ears, 25c.; peck, 65c.; bush., \$1.85; 3 bush., \$5.00.

LEAMING YELLOW DENT, No. 9.—We do not consider it an EXTRA EARLY CORN, as some claim it to be. One hundred and ten days of an average season in CORN BELT 71°, and one hundred and twenty days in BELT 68° 30' would probably mature this fine variety; yields well on moderately rich soil. Our experience with the Pennsylvania grown seed is that it is far too late for Northern Illinois and Iowa. Our seed is probably as fair a type of this sort as can be found, and has been grown 75 miles south of Chicago. Price, selected ears, 6 for 25c.; peck, 60c.; bush., \$1.70.

WISCONSIN YELLOW DENT.—Of bright yellow color and with many rows; many of the ears averaging 22 rows and upward. Kernels of good depth; cob red; average weight of ears about 9 to 10 ounces. It matured the season of 1883 north of latitude 43°; is in every way one of the most desirable kinds for CORN BELT 71°, and even somewhat north of that. This variety has been grown in Central Wisconsin for thirty years, and has been brought to its present nearly perfect type by careful selection. Our stock has been grown in Southern Wisconsin. Price, peck, 60c.; bush., \$1.80.

CRANBERRY WHITE DENT, No. 41.—(FOR CORN BELT 74°)—A white Dent with pinkish tint on the upper half of the ears; is a favorite in many parts of Illinois and Indiana; yields remarkably well, is an excellent corn for feed purposes, and a very handsome, distinct sort. Price, per peck, 60c.; bushel, \$1.85.

MCGREGOR, IOWA.—Your catalogue giving a map of the different Corn Belts for various kinds of corn is a fine thing. GEO. H. JENKINS.

WHEAT, BARLEY, FORAGE PLANTS.

On this page we describe several comparatively new grains and forage plants which we think well worthy a trial by all interested in these classes. Our space does not permit of extended descriptions, but we have given room to none not really valuable.

NEW WHEAT—Large Kernel French Hybrid.

"A bearded variety; 10 days earlier than any other kind" says the French grower. "A stiff straw not liable to lodge, grains large, plump, of fine golden yellow color; rich in gluten and of superior quality." Both spring and winter wheat growing have received quite an impetus the past two or three years. If spring wheat growing is to be a large crop in Illinois and parallel States it would be well to have the best. Try this. Price, per 1 ounce package, 15c.; lb., 45c.; 5 lbs. for \$1.25

BARLEY, BLACK—A six-rowed variety, heavy, prolific, in habit about like Manshury, has yielded fifty fold owing to its great habit of stooling, giving sometimes twenty stalks from one grain. Of great fattening value for cattle and swine, being more nutritious than corn. Price, oz., 10c.; lb., 25c.; peck, 40c.; bushel, \$1.20

BARLEY, NEPAUL OR HULLESS—A two-rowed variety, grain much resembles wheat, but is double the size, a stalk shorter than ordinary, while heads are longer. This has been largely planted in Eastern States. Oz., 10c.; lb., 26c.; peck, 40c.; bushel, \$1.20; 2 bushels, \$2.25

BARLEY—Manshury—A six-rowed barley with very long heads, well filled and heavy; straw bright and strong; a little later than common six-rowed barley. Our crop failed to fill well; we can supply a fair grade of seed at market price, about \$1.40 per bushel, bag included, delivered to depot

SPRING RYE—Quite a favorite crop for sowing where winter crops have failed. Peck, 50c.; bushel, \$2.00.

SUNFLOWER—Mammoth Russian—For poultry, for stock and for fuel. Grows easily in almost any kind of soil. Four quarts plant an acre. Every farmer should plant a patch. Our seed is saved from selected heads. Pkt., 5c.; lb., postpaid, 30c.; 10 lbs., not prepaid, \$1.20; 100 lbs., \$9.00.

VARIOUS

FORAGE PLANTS.

ESPARSETTE OR SAINT-FOIN.

It is an excellent forage plant, and improves the quality and increases the quantity of milk when fed to milk cows. It has been experimented with in Utah, Idaho, and other Territories and Western States, alongside with the Alfalfa, and is said to do just as well, if not better than this valuable clover. Sow one or two bushels per acre. 32 lbs. to bushel. Price, postpaid, lb., 25c.; not prepaid, 6 lbs., 60c.; 10 lbs., \$1.00.

JOHNSON GRASS—It is a good grass for both grazing and making hay; belongs to the Sorghums, its botanical name being *Sorghum Halapense*. A perennial, a rapid grower, long, cane-like roots, the leaf, stalk and panicle of this grass resembling those of other Sorghums. It grows on any land where corn will grow and, like corn, will bear heavy manuring, yielding richly in rich ground. In fact, the richer the land, the better the crop. One bushel will sow an acre. We do not recommend it north of CORN BELT 73° (see our CORN

BELT MAP.) Per lb., 25c.; peck, 85c.; bu. (25 lbs.), \$3.00

TEOSINTE—A most prolific forage plant. Resembles Corn, but the leaves are much longer and broader. The stalk is very nutritious. It can be cut several times during the season, yielding enormously. One seed will sometimes produce twenty to sixty stalks or shoots. It was introduced from a tropical country, and the warmer the climate the better it yields. Should not be planted until the soil is perfectly warm in spring. Requires about four pounds of seed per acre. Plant in drills three feet apart, and two or three seeds every twelve inches in drill. Per pkt., 10c.; oz., 25c.; 1/4 lb., 50c.; lb., \$1.75

SERADELLA—A fine fodder of good quality, admitting of one, and sometimes two cuttings in one season. It succeeds well in a dry, sandy soil, and furnishes a good pasture for sheep. Per lb., 25c.

CHUFAS, OR EARTH ALMONDS—The nuts grow underground near the surface and are easily reached by pigs or poultry. Excellent for fattening hogs. Plant 10 inches apart and in 2 feet rows. If seed is dry, soak before planting. One per k plants an acre. Price, lb., 35c.; peck, \$1.50.

FOR FALL PLANTING.

Hyacinths, Narcissi, Crocus and other early spring flowering bulbs, which we import in large quantities, will be ready September 20. Write us at any time for catalogue; we can mail at any time and book your order for delivery in the Fall when the bulbs arrive. For orders in advance amounting to ten dollars and over, we offer a discount of 5 per cent from the prices quoted in the special price list of these bulbs.



NARCISSEUS POETICUS ORNATUS.



WINTER WHEAT.

MEDITERANEAN HYBRID, or Michigan Bronze—One of the best for main crop. Introduced 6 years ago and now a standard. Bu., \$1.65.

THE RURAL HYBRID WHEATS—The collection of six sorts, one packet each, 50c. postpaid. They are for Fall sowing.

HINDOOSTAN—This new variety first introduced by us in 1889 has done exceedingly well. It will surely become favorably known and be extensively planted. We are having a good acreage sown and have made prices on the basis of a fair crop. Its origin was, as stated last year, from a few grains found in hides imported from Hindoostan. It is early ripening 6 to 8 days earlier than standard kinds. Straw red, with red chaff, 6 feet high, heads long, bearded. The grain is red and flinty; it has yielded over 50 bu. per acre. Per lb., postpaid, 30c.; 1/2 lbs., 75c.; by express, 1/2 peck, 10c.; peck, 70c.; 2 bush., \$1.25; bush., \$2.25; 4 bushels or more at \$2.00 per bushel, bags included.

RELIABLE—A new Canadian variety, very hardy, has stood well severe storms and midwint. Per lb., 35c.; 3 lbs., 75c., postpaid; bushel, \$2.50.

FORAGE PLANTS—Five Non-Saccharine Sorghums.

All these varieties bear dry weather well. Where corn will wholly fail for want of rain at a certain stage, these plants simply stand and wait for rain, and then go on and make their full yield. In the way of dry forage they make enormous returns, at a cost less than the cost of gathering alone of corn fodder. They will grow on any land where corn will, even on land too poor for corn. All 5 lbs. to the bushel. Price, for any of these 5 kinds, per lb., postpaid, 5c.; 5 lbs., 75c.; not prepaid, peck, 12 1/2 lbs., \$1.15; bushel, 60 lbs., \$4.00.

KAFFIR CORN—One of the best forage plants, (see our 1889 catalogue for more extended description.) It the crop is wanted mainly for fodder, it is recommended to cut down the whole stock when the first seed heads come into bloom. The second growth, springing at once from the roots, will still mature in climates similar to Central Kansas) a full crop of grain and a second full crop of forage before the middle of October. Sow in rows three feet apart, three to five pounds of seed to the acre.

WHITE MILLO MAIZE, OR BRANCHING DHOURA—Of South American origin. It can be cut and fed at any stage, or cured when heading out, for fodder; it bears grain in erect full heads, and is almost equal to corn for feeding all sorts of stock; also makes excellent meal. It requires all summer to mature seed. Plant three ears in a hill, eighteen inches apart, four feet rows. It shoots out greatly and takes a great amount of foliage. Three to five pounds per acre. Can be cut for feed several times a season.

YELLOW MILLO MAIZE, OR YELLOW BRANCHING DHOURA—Grows nine to twelve feet, stooling from the ground. The seed heads often weigh near-fourths of a pound, sometimes a full pound after being fully ripe. Heads are old and begin to turn down usually as soon as formed and when ripe hang on a short goose-neck stem. On account of its branching habit, and tall, massive growth, its grain should be planted in four to five foot rows, and two to three feet drill, according to the quality of the land, two plants in a hill. Average yield 50 bu. of seed.

LARGE AFRICAN MILLET—Stalks eight to ten feet high, and yield heads of grain twelve to fourteen inches long, weighing six ounces to a half pound. The whole stalk corresponds to Amber Cane. If the whole stalk is cut down and cured when the seeds are in the dough state, it makes excellent forage, easy to cure, keeps well in out door shocks, and much liked by stock in the Winter. If cut in the green state, it makes excellent green feed and the shoots that spring at once from the root make a second crop of forage. It bears dry weather and gives a crop where Corn would wholly fail. Plant early in three foot rows, and cultivate as Corn.

EGYPTIAN RICE CORN—It does not stool; stalks grow from six to eight feet high, producing a large seed head which hangs down on a short goose-neck stem, same as Yellow Millo Maize. Plant early in May, 5 to 6 lbs. to the acre. A fair yield is 40 bushels per acre.

• VAUGHAN'S CHOICE SEED OATS •

AT HARD TIMES PRICES.

The stock has all been cleaned by our special mill for this purpose, which is the finest in the West. Our samples will be found to be of very high grade. We invite comparison with those who boast fancy sorts under doubtful names at double prices. You can afford to change your seed at this cost. Samples of 8 kinds, postpaid, 25c.; any one, 5c.; any kind at 25c. per lb., postpaid.

GIANT YELLOW FRENCH.—Sold by others as "Giant Yellow Side Oats" and "Prolific Side Oats." It has been selected since 1880 and may be recommended with confidence as the most prolific in existence. It is a most wonderful hybrid of the Yellow Flanders with Hungarian Oats; is **extremely hardy, makes a strong stool and grows with a vigor and rapidity not equaled by any other sort.** The straw, which is heavy and strong, never lodges. The heads are compact and often measure over 11 inches in length. The grain is heavy, large, plump and entirely similar to the Yellow Flanders Oats or the Saline Oats which have been so very popular for years in France." The foregoing is the description of the French growers. With us it has been a strong grower and very prolific; a large but rather light kernel. Bulletin No. 7 of Ill. University reports the Giant Yellow French as giving the largest yield of all sorts tried. We imported a large stock the first season and now offer this oat at the lowest rates in the country. We believe it worthy of extended cultivation. Sow early as it needs the whole season. Peck, 40c.; bush., \$1.25; 2½ bush., \$3.00; 5 bush., \$5.50.

RACE HORSE (also called Clydesdale).—Imported and first introduced by us from England in 1886. The handsomest Oat we have ever seen. Was originated by careful selection by Oakshott the famous English seed house, and certainly shows to be remarkably distinct. A heavy cropper, two weeks earlier than most sorts, with very plump grains. Now ranks as one of the best yielders. Has been often re-named by dealers who wished to place a "novelty" on the market, but it would be a good oat even if they named it "Northwestern Mastodon stocked around the North pole, 713 bu. per A." But we don't blow it that way. It's a good oat, send for sample.

Peck, 35c.; bush., \$1.00; 2½ bush., \$2.00; 10 bush., \$8.50.

WIDE AWAKE.—Originated in Central New York, where it is highly thought of. It has a very long and stiff straw with a very plump and heavy grain, having long meat and thin husk. Price, peck, 35c.; bush., \$1.00; 2½ bush., \$2.25; 10 bush., \$8.00.

BONANZA.—First named in Wisconsin where it is claimed to have originated. It yielded well with us but nothing like the quantities we read of although our stock seed came from the introducer. We have it at best prices and a very fine sample. Peck, 40c.; bush., \$1.00; 2½ bush., \$2.50; 10 bush., \$9.50.

AMERICAN BANNER OATS.—The grain is large, white and plump; ripens early, has stiff straw of good strength. You cannot go far wrong in giving it a trial. We cannot promise it will yield ten times more than any other known variety. Postpaid, per lb., 20c.; not prepaid, peck, 35c.; bu., \$1.00; 2½ bu., \$2.25.

WHITE BELGIAN.—We have our stock of this standard Oat from one of the best posted growers of farm grain in the Northern part of Illinois, and he says: "The Belgian Oat is as good, as any Oat that is raised, it stands from 4 to 5 feet in height, with stiff straw, and yields 26 bags per acre, 3 bushels to the bag." If you want some new seed oats here is a chance. Peck, 35c.; bush., \$1.00; 2½ bush., \$2.25.

PRINGLE'S PROGRESS.—Short stiff straw, with long full head. It does not readily lodge, being so short and is **very early.** Crop failed last season.

WELCOME.—Now widely known and extensively grown. They have proved very productive and are a very heavy Oat out-weighting nearly all standard sorts. The introducer claims the large yield is because of the wonderful stooling, often 40 stalks from a single grain. The low price at which we are able to offer these will give every one an opportunity for a change of seed at very trifling cost. Lb., 20c; pk. 30c; bu. (32 lbs.), \$1.00; 2½ bu., \$2.00; 10 bu., \$7.50.

COLLECTION OF OATS: One bag of 2½ bushels each any 5 kinds making 12½ bushels, for \$10.00.

THE JAPANESE BUCKWHEAT.

From what our customers write we think it now well established that this variety excels them all. Those who grow Buckwheat should certainly get in a stock of this. It is all we claimed for it last year when we wrote as follows: The Japanese Buckwheat will yield fully twice as much on the same ground as any other, and it ripens one week to ten days earlier, stands up better, and makes better flour than any other kind of Buckwheat. Price, lb., 30c.; peck, 50c.; bush., \$1.50; 2 bush. bag., \$2.35.

Buckwheat, Silver Hull. Peck, 35c.; bush., \$1.20.

Buckwheat, Common. Peck, 30c.; bush., 95c.

SUGAR CANE, Early Amber.—A profitable crop for fodder as well as for sugar making. Our stock has been grown in Iowa, from a strain noted for sugar making quality; has yielded 175 gallons of syrup to the acre. Our seed was hand picked, cured free from rain and tests well. Per lb., by mail, 20c., by express, 10 lbs., 60c.; 50 lbs., \$2; 100 lbs., \$3.50.

VETCHES, Spring.—Sown broadcast like wheat or barley, and sometimes mixed with oats for soiling. Used in France and Canada as a substitute for peas. Also ground up into flour, after which it is mixed with wheat flour for making bread. Per lb., 30c.; bush., \$4.75.

FLAX SEED, Russian.—We have some very choice seed of this, much superior in every way to common Flax. It will increase the yield and add to the value of the product. Most of the Flax of the country is badly run out. It will pay you well to secure some new stock seed. We guarantee our seed to be strictly clean. Price, lb., 25c.; peck, 60c.; bush., \$2.00.

BROOM CORN, Improved Evergreen.—The improved Evergreen Broom Corn grows about 8 to 10 feet high, stands up well, and is free from crooked brush. Its greatest value to the grower is the fact that it will not get red in the field before it is cut, but is strictly a green variety of brush and will always command highest price. (Bush. 46 lbs.) Price, lb., 25c., not prepaid, ½ peck, 30c.; peck, 55c.; bu., \$1.60.

BOSTON PEA BEAN.—Very early, hardy and prolific, beans small, round and handsome. The plant never suffers from rust. A very desirable variety for farmers to grow for market. Pkt., 10c.; qt., 40c.; peck, \$1.35; bush., \$5.00.

NAVY BEAN.—We can always supply a good quality of this standard article at market rate, price now about, peck, 90c.; bush \$3.50. Write for special price on larger lots.

CANADA FIELD PEAS.—A great crop for swine. Pk., 40c.; bu., \$1.25; 2 bu., \$2.35. Special price on large lots.

WILD RICE (Zizania Aquatica).—As an attraction for wild fowl it cannot be equaled. In large ponds and lakes it purifies the water and affords a refuge for the small fry from the large fish, also furnishing them plenty of food from the animalculæ upon its stalks. For planting in fish ponds it is especially desirable. It also does well along the shores of marshes. Price, per lb., 35c.; 10 lbs., \$2.40.

Pierce's Improved Cahoon Broadcast Seed Sower.—A hand-machine very largely used. It distributes evenly four to six acres per hour. The bag and hopper hold about 22 quarts. Price, \$4.00; three at one time for \$10.00.

GARDEN CITY, MO. Your seeds always give the best results, your American Banner Oats are the best I ever raised; I raised from three-quarter acre 60 bushels by machine measure. A. B. TROYER.

WE GUARANTEE THAT ALL SEEDS, BULBS, ETC., SHALL REACH PURCHASER IN GOOD CONDITION.



RACE HORSE OATS.



NEW JAPANESE BUCKWHEAT.

'GEM' CULTIVATOR.

Twenty thousand of these splendid tools have been sold during the past nine years, to the greatest satisfaction of the buyers. Many have said they would not be without it for double the cost, and all agree that it is by far the Cheapest and Best article of the kind made. If you decide that you want this tool do not be put off with any excuse whatever, that some other kind is equally good. Insist on this tool and get it; ask your dealer why he does not keep it. Write us for nearest place where it can be had, and we will see that you get it for a very small freight rate.

Beware of imitations. If in doubt write us for nearest point where the genuine can be had.

The "Gem" can be had in all Eastern Cities, and in the West, at Kansas City, St. Louis, Louisville, Omaha, Minneapolis, La Crosse, Milwaukee, Leavenworth, and other points.

We ship them everywhere.

NO. 1. SINGLE WHEEL "GEM." \$4.25.

The working parts of the Single Wheel "GEM" are: 2 Scuffle or Cutting Blades, one 4", and one 9 inches wide, 2 plows, right and left hand; 5 Stirring Teeth; all made of best steel. The wheels and handles of the "GEM" are both adjustable in height, while the frame is so slotted that the hoes, teeth and plows can be set in almost any position or angle. The Scuffle Hoe makes a clean cut, and is followed by the teeth—five or less—which thoroughly pulverize the soil, and drag out and expose to the sun the roots of the weeds cut by the hoe. In use, keep the tooth on the right, quite as far out as the end of the hoe, using it as a guard; being of such slender shape it will not throw dirt enough to cover small plants. The hoes, of thin steel, and presenting nearly a straight line to the work, avoid the "dodging," so common to tools of this kind. Price of single-wheel machine, No. 1, with all parts as shown in engraving, with exception of A and B) \$4.25. f. o. b. cars or at express office.

NO. 3. DOUBLE WHEEL "GEM." \$4.25.

This consists of the main Frame and Handles and the pair of Side Hoes and Double Wheel Attachment (Fig. A and B in the engraving), and we furnish them at \$4.25.

COMBINATION PRICES SINGLE WHEEL "GEM" WITH SEED DRILLS.

(Add \$1.75 extra if you want both Single and Double Wheel Attachments.)

A. H. Matthews' New Drill,	\$10.50 for the two machines.
A. H. Matthews' Little Gem Drill,	8.75
Matthews' Garden Drill (round box),	11.50
New Model Drill,	10.75
Comstock Garden Drill,	10.90
Planet Jr., Drill No. 2,	11.25
Planet Jr., Combined Drill,	13.25

NEW MODEL SEED DRILL TRY THE LATEST AND BEST.

ITS FEATURES.—Regulation of Discharge. Drills of similar construction are usually provided with a series of holes of varying sizes through which the seed is passed, which of course do not always give an opening of the exact size required. The operator is usually told, in substance, that "if one hole don't suit, try another." This adjustment in the Model, is accomplished in a very simple and effective manner by use of a slide with a pear-shaped opening passing under the bottom of the seed reservoir, which is provided with a perforation of similar shape, in a reversed position. This slide can be instantly adjusted to size indicated by Index, or to a hair's breadth variation between, a vital point in a perfect seed drill. This Index or indicator is plain, Crated and carefully Packed for shipment. Packed weight about 40 lbs. Price, \$6.50.

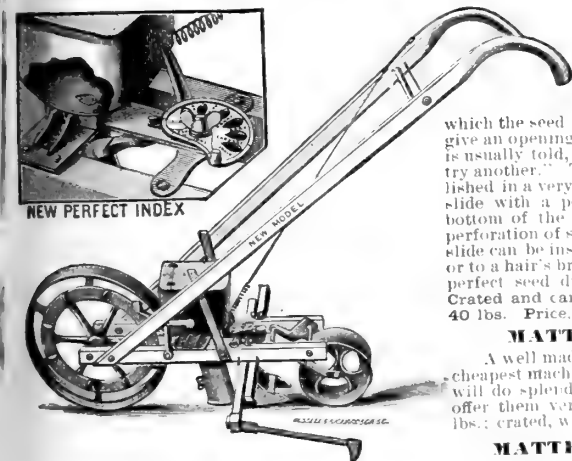
MATTHEWS' GARDEN CULTIVATOR.

A well made tool. Expanding frame, with five steel teeth. The cheapest machine of the kind we offer. Thoroughly well made, and will do splendid service. We bought a large stock last season, and offer them very low; each, \$3.50; three for \$10.00; weight, 35 lbs.; crated, with handles attached.

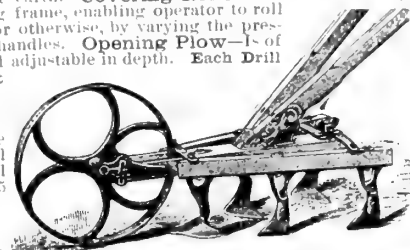
MATTHEWS' COMBINED DRILL—AMES'.

Those who prefer a Drill and Cultivator combined will find this a good one. Weight, 45 lbs. Price, \$10.00.

convenient and reliable. It is placed in open sight, immediately under the eye of the operator, and can be quickly adjusted to the slightest variation desired. As the names of the principal seeds are plainly shown on the Index itself, it is not necessary to refer to any table of reference. **Cut-off** The flow of seed can be instantly stopped by a swinging cut-off, conveniently operated by a cord and ring on handles. **Marker**—Is simple, easily adjusted and firmly held. **Broad Wheel**—The main wheel is of larger size and of unusual width, preventing its sinking into soft earth. **Covering Roller** It is attached by swinging frame, enabling operator to roll lightly or otherwise, by varying the pressure on handles. **Opening Plow**—Is of steel and adjustable in depth. Each Drill



NEW MODEL DRILL.



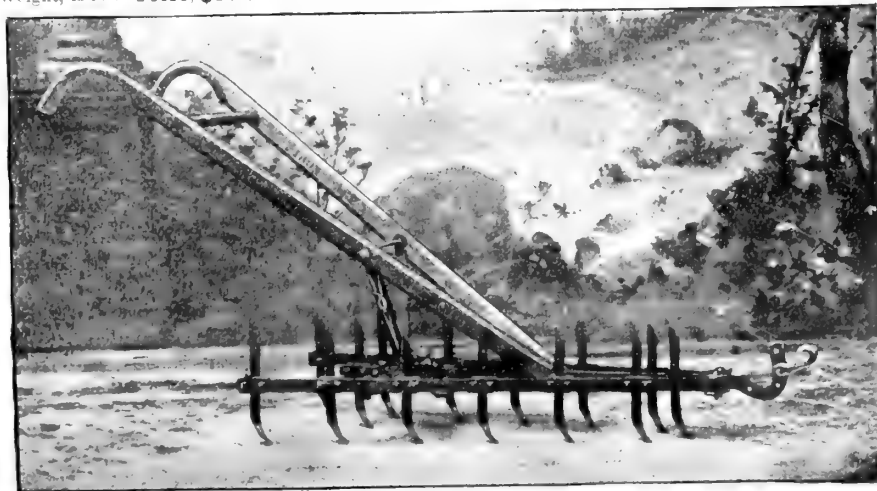
MATTHEWS' GARDEN CULTIVATOR.

CULTIVATOR HARROW.

This Harrow Cultivator we placed upon the market for the first time in 1887, and it has proved a general favorite. It has all the advantages of our former Expanding Harrow while its reversible diamond pointed teeth, about two inches wide, play havoc with weeds and mellow the soil. It has a light, open frame, more durable, and not so likely to clog as a wooden one, while each tooth, being secured to the frame by a steel clip, can, by the simple loosening and tightening of a nut, be adjusted in depth, reversed, taken out, sharpened and replaced without the old-time fashion of driving out, wedging up, getting loose and—swearing. For very close rows every other tooth can be very quickly removed. Price, \$5.25.

MATTHEWS' SEED DRILL. AMES' PATENT.

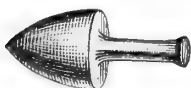
Round Seed Box: a well-known drill; in use for many years; much similar to our A. H. Matthews' Drill. Please give full name as above when ordering, to distinguish it from the latter. Weight, about 40 lbs. Price, \$8.00.



IRON FRAME CULTIVATOR HARROW.



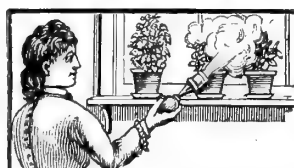
Sulphur Bellows.



New French Dibber.



Standard Hose Nozzle.



Ives Hand Fumigator.



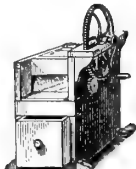
Whitnall's Dandelion Puller.



Dibber.



Garden Line Reel.



Horse Radish Grater.



Scuffle Hoe.



Boynton's Pruning Saw.

SUNDRY FARM AND GARDEN TOOLS AND SUPPLIES.

Prices given below do not include prepaying of charges except when noted.

Barrel Headers or Fruit Presses—Price, each, Lever Press, Improved, \$2.00; Iron Screw Press, best, \$1.75; Wood Screw Press, \$1.50.

Barrel Truck and Hand Cart, Combined.—It is one of those articles that cause the user to wonder how he ever did without it, as it really becomes indispensable when once used. The barrel is raised from the ground, carried to the place desired and INSTANTLY DETACHED, all WITHOUT HANDLING. The weight being balanced over the axle, no lifting or no castings; all irons are of best wrought. Price, WATER TRUCK, with barrel \$9.50; box, extra, \$3; Complete, \$12.50.

Bellows.—Used for dusting plants with sulphur or like material. Two sizes, each \$1.00 and \$1.25.

— **French Liquid.**—For liquid insecticides, \$2.50.

Bouquet Tubes.—For Buttonhole Bouquets. With gilt pin each, prepaid, 15c.; per doz., \$1.
— without pins, each, 10c.; doz., 75c.

Brackets, Iron Flower Pot.—Handsomely finished. For 1 pot, 25c.; for 2 pots, 40c.; for 3 pots, 60c. Send for circular.
Cocanut Fibre.—Per ½ bbl., \$2.25; per bbl., \$4.00.

Cuba Bast—Excellent tying material, per lb., 25c.

Daisy Grubber—Polished handles, each, 50c.

Dandelion Puller, Whitnall's. An excellent tool for removing Dandelion Plants, Dock or Plantain from lawns. Price, 40c.; postpaid, 55c.

Dandelion Puller, English.—Imported; lighter make than the Whitnall, a good and useful tool. Not prepaid, 40c.

Dibber.—For transplanting vegetable plants, steel points, very desirable, each, 50c.; postpaid, 60c.

— **New French.**—Just the thing for making holes for pot plants, each, 40c.; 3 for \$1.00; by mail, 50c. each.

Flower Gatherers.—Imported, nickel-plated; an indispensable tool for ladies; each, 50c.

Fumigators.—Florists all admit that no remedy without injury to the plant is so effectual in destroying insects as tobacco smoke. To use smoke safely and scientifically we recommend this invention. No. 1, \$1.50; No. 2, \$2.50; No. 3, \$3.00.

Ives' Hand Plant Fumigator.—A neat little contrivance, particularly adapted for the use of ladies and others who grow only a few pot plants. Postpaid, 35c.; 4 for \$1.00.

Fruit Picker, Boston.—Of galvanized steel wire, each, 40c.

Garden Lines.—Best braided, 200 ft., \$1.25; 100 ft., 65c.

Garden Line Reel.—Each, 60c.

Garden Spoon, Steel.—Very cheap and very durable; no wooden handle to spoil from bad weather. Blade, 3x6 inches. Each, 20c., postpaid; not prepaid, 12c.; doz., \$1.10.

Garden Tools.—Ladies' floral set, four pieces, short handles \$ 60
— Ladies' and children's, long handles 75
— Boy's set, large 1 10

Garden Roller.—1 sec. 12x24, 200 lbs. 12 00
— 1 sec. 12x28, 250 lbs. 14 50
— 2 sec. 12x20, 300 lbs. 16 00
— 2 sec. 12x24, 400 lbs. 20 00
— 2 sec. 12x28, 500 lbs. 23 00

Glass Cutter.—Diamond Universal, \$3.50.

— and Glazing Tool, 10c.; doz., \$1.00.

Grafting Wax.—Per ¼ lb. bar, 15c.; ½ lb. bar, 25c.; 1 lb. bar, 40c. By mail, add 16c. per lb.

Grass Hooks.—English, two sizes, each, 50c. and 60c.

Grave Vases.—These iron vases are very useful for preserving cut flowers on graves. No. 1, each, 60c.; No. 2, each, 50c.; No. 3, each, 35c.

Hand Cart.—Has ½ in. iron axle, 29½ in. long; wheels 30 inches high and tire 1x3-16. Box 20x32 inches outside, and 10 inches high. Weight, 50 lbs. A very substantial cart for light work. Price, with tongue, \$7.00.

Hoes, Scuffle.—Price, without handles, each, 6-inch, 35c.; 7 inch, 45c.; 8 inch, 55c.; 9 inch, 65c.

— **Dutch Garden Hoes.**—Each, 50c.

— **Crescent Hoe.**—Each, 65c.

— **Warren.**—No. 1, 65c.; No. 2, 85c.

— **Superb.**—A splendid tool, each, 65c.

Hose, Red Rubber.—Three ply, extra heavy. We have sold a large quantity of this grade, and it has given general satisfaction. It is very durable and the best for general use. We keep it in lengths of 25 and 50 feet, and these we do not cut. Price, ¼-inch (including couplings), per 25 feet \$3.75; 50 feet, \$7.00; 100 feet, \$13.00.

Hose Reel, "The Success."—Price, with capacity for 100 feet ¼-inch hose, \$2.50; Reel for 200 feet hose, \$3.50.

Hose Menders, Hall's.—½ in., each, 10c.; doz., \$1.00.

— **Wooden.**—Price, ¼ in., per doz., 50c.

Hose Nozzle, "Gem."—New, throwing all variations from fine spray to stream. Price, \$1.00.

Hose Nozzle.—Standard, with stream and 2-inch spray. Price, 80c. Same, with 2½-inch spray. Price, \$1.00.

Hose Nozzle, Nixon's Patent. No. 1 Nozzle, for orchard or garden, \$1.25. No. 6 Nozzle, for lawn, \$1.50.

INSECT DESTROYERS.

Fir Tree Oil.—Soluble insecticide effectually destroying all kinds of pests to which plants are subject. Equally effective on animals and is harmless to the skin and hands when used as a wash. Full directions with each bottle. Per qt., \$1.25; pt., 75c.; ½ pt., 40c.; small bottle, 25c.

Whale Oil Soap.—One of the most effective and cheapest remedies to destroy slugs, worms and other insects on trees, shrubs, garden and house plants. As a general rule, seven gallons of water to one pound of Soap is used for applying to foliage. 2 lbs., 25c.; 4 lbs., 40c.; 8 lbs., 75c.

Tobacco Soap, Rose.—For washing and syringing plants, trees, etc.; a valuable preparation. Per ½ lb. box, 25c.

Tobacco Stems.—For fumigating plants infested with green fly, etc. Per lb. 15c; bbl. \$1.00.

Persian Insect Powder.—Very destructive to all insect life. Per ½ lb. 20c.; ¼ lb., 30c.; 1 lb., 50c.

Flowers of Sulphur.—A preventive of mildew on roses, grape vines, etc. Per lb. 10c; 10 lbs., 65c.

Paris Green.—Strictly pure. Per ¼ lb. 15c; ½ lb. 25c; 1 lb. 40c. Special rates on quantities.

White Helibore.—Very effective for destroying rose slugs and currant worms. Per lb. 50c.

Henderson's Mildew Preventive.—Per pint, 75c.

Cole's Insect Destroyer.—Has proven instantly fatal to Mealy Bug and Red Spider, without injury to any plant. Apply with the Atomizer. Per bottle, 40c; qt. \$1.50. Atomizer 35c.

Gishurst's Compound.—For destroying green fly, mealy bug, thrip, mildew, etc. Per pkt., 75c.

Hammond's Celebrated Slug Shot.—Guaranteed to destroy Potato Bugs and those on Tomato and Egg Plants, Currant Worms, Cabbage Lice and Worms, Flea Beetles and Striped



Bugs on Melons, Squash, Turnips, Beets, Onions, etc. Canker Worms and Caterpillars on Fruit and Ornamental Trees. A preventive of the Rose Bug and Cut Worm. Price, 5 and 10 pound packages, 6 cents per pound; 25 to 50 pounds at 5 cents per pound. By barrel full, in bulk, 225 pounds to 260 pounds weight, 4 cents per pound on cars at Chicago. Write for circulars and lower rates for large lots.

Grape Dust.—Excellent for the prevention and destruction of mildew on plants, 5 lb. packages, 50c.

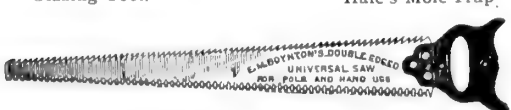


Diamond Universal Glass Cutter.



Glass Cutter and Glazing Tool.

Microscope.



Boynton's Pruning Saw.



Hand Cart.



Hale's Mole Trap.



"Handy" Budding Knife A.



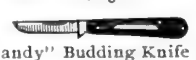
No. 1.



No. 2.



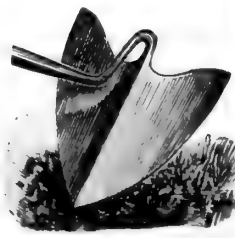
No. 3.



"Handy" Budding Knife B.



Seed Potato Knife.



Warren Hoe.



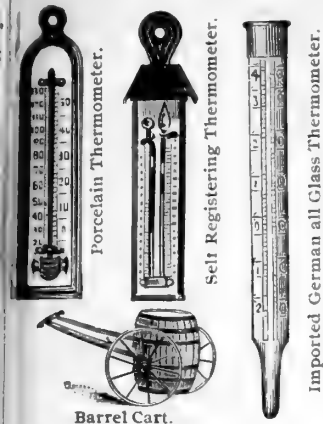
Tree Scraper.



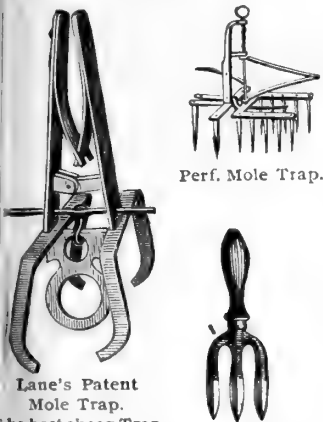
Scollay's Sprinkler.



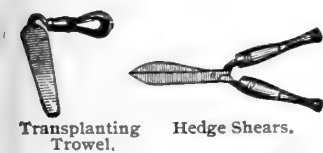
Crescent Hoe.



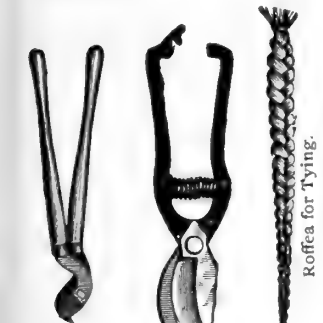
Barrel Cart.



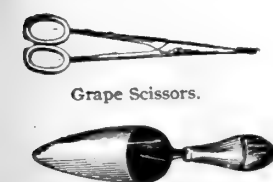
The best cheap Trap made. Each, 75c. Weeding Fork.



Transplanting Trowel. Hedge Shears.



Buckeye Pruning Shears. Wiss' Pruning Shears.



Grape Scissors.

Vaughan's Steel Trowel.

Horse Radish Grater.—No. 1, capacity of 50 lbs. of roots per hour; weight, 38 lbs. \$7 00
Hydronette.—New French, throws continual stream, with 2 extra sprays, each, No. 13, \$6.50; larger, No. 12, \$7.25.

KNIVES.

Over 25 kinds of finest English and German Horticultural Knives in stock. Finest steel and finish.

- **Asparagus.**—Imported. Each, 90c.
- **Asparagus.**—American. Each, 35c.
- **Budding, Vaughan's "Handy."**—Blades are of best English steel; handles of German silver, horn and a new composition in red, pink or green. They measure when open, 5 inches. When ordering state style of blade wanted, A or B. See cut. Only 50c. each, postpaid.
- English, ivory handle, No. 1, \$1.00.
- Black handle, ivory tip, strong, No. 2, 75c.
- **Pruning.**—Fixed handle, each, 50c.
- Stag handle, bent blade, No. 3, 90c.
- " " larger, \$1.25.
- " " straight blade, \$1.15.
- **Seed Potato.**—See special description.

Labels.—Wood, for pots, plain, 4 in. per 100, 15c; per 1,000, 60c; 6 in. per 100, 20c; per 1,000, \$1.25; 12 in. per 100, 65c.
 Painted, 4 in. per 100, 15c; per 1,000, 75c; 6 in. per 100, 25c.

LAWN MOWERS.

Philadelphia; THE BEST IN THE MARKET.

"THE CITY."			"STYLE M."		
List Price.	Our Price.		List Price.	Our Price.	
10 inch.....\$11 00	\$4 50		14 inch.....\$17 00	\$6 50	
"STYLE D."			16 inch.....19 00	7 25	
10 inch.....\$13 00	\$4 75		18 inch.....21 00	8 00	
12 inch.....15 00	5 75		20 inch.....23 00	9 00	

Lawn Rake.—Davis'.....each.
 — Wood, 20 teeth....." 35
 — Imported steel, removes white clover heads " 2 25
 — Champion, single....." 80
 — " double....." 1 20

Lawn Settee.—Steel galvanized, 4 feet long, seating two persons. It is practically indestructible, made in one piece, solidly braced in its feet, and taken all in all, for garden, lawn, veranda, summer house or cemetery, is without a fault and cannot fail to give satisfaction. Price, delivered at freight or express office in Chicago, \$10.00.

Leaf Mold.—Fine for ferns, etc., per bbl. \$2.00.

Mats.—Archangel. For covering sash, each, 75c.

Microscopes.—Each, postpaid, 50c.

Mole Trap.—

— Hale's. The best trap made, \$2.00.

— Perfection. Highly recommended by Philadelphia seedsmen where the tool is made, each, \$2.00.

Needles.—For sewing grain bags, each, 10c; doz., \$1.00.

Pampas Plumes.—Natural, 25c., 35c. and 40c. per pair, according to size and quality. Colored—Pink, green, purple, red, etc., 40c. per pair. Pampas Plumes should not be sent by mail.

Peat.—For orchids, etc., per bbl., \$2.25.

Pencils, Wolf's Indelible.—For marking labels. Each, 10c., postpaid.

Plant Bed Cloth.—An excellent substitute for glass, and being light, can be easily and safely shipped to sections of the country where it would be impossible to send sash. We do not sell less than 25 yards of a kind. Light, 25 yards and upward, per yard, 5c; 100 yards and upward, per yard, 4½c; medium, 25 yards and upward, per yard, 9c; 100 yards and upward, per yard, 8½c; heavy, 25 yards and upward, per yard, 13c; 100 yards and upward, per yard, 12½c.

Plant Stakes.—Green Painted Tapering. Very neatly finished, of light wood and very useful for tying plants, shrubs, etc. Price, per doz., 24 in., 35c; 30 in., 45c; 36 in., 55c; 40 in., 65c; heavy, 4 ft., each, 10c; 5 ft., each, 15c.

— **Bamboo or Cane.**—4 to 7 ft. long, per 100, \$1.00.

Potato Shovel.—Niles' steel wire, each, \$2.00.

Plant Protector, Folding. Patented Nov., 1889. A perfect protection from frost, sun and insects. They are light, durable, airy and strong. Galvanized iron folding frames covered with plant fibre cloth. Will last ten years and give satisfaction.

No. 1. Size, 14x16 in., 16 in. high.... each, 30c.; doz., \$3.00
 No. 2. " 11x13 in., 11 in. high.... " 25c.; " 2.50
 No. 3. " 8½x10 in., 8½ in. high.... " 20c.; " 2.00

We are General Agents for the Northwest.

Pot Covers.—Cardboard, imitation leather, adjustable, 6 in., each, 15c; doz., \$1.50; 8 in., each, 20c.; doz., \$2.00.

Roffea.—The best tying material for plants, lb., 25c.

Rustic Work.—Bridges, Summer Houses, Settees, Chairs of all sizes on hand and made to order.

Rustic Hanging Baskets.—Diameter bowl each, 8 inch, 85c; 9 inch, 90c; 10 inch, 95c; 11 inch, \$1.05; 12 inch, \$1.10; 14 inch, \$1.65.

Rustic Stands.—Oblong, 28 in. high, 24 in. long, 8 in. wide, 6 in. deep, each, \$3.00.

— 28 in. high, 26 in. long, 9 in. wide, 7 in. deep, \$3.50.

Saws.—Boynton's Lightning Pruning Saw.—As a pruning saw it has no equal. Holes are provided in the handle for attaching to a pole; 16 inch, 85c; 18 inch, \$1.00; 20 inch, \$1.25.

Sprinkler, Scollay's Rubber.—Indispensable for Floral work and Window Gardening, invaluable when once tried. Very useful for dampening clothes or sprinkling in any way. Beware of imitations, as this is the best. Prepaid, \$1.10; not prepaid, \$1.00. Same style, medium, 60c; small, 50c.

— **Four Arm Lawn Sprinkler and Fountain.** One of the most useful and reliable Sprinklers made; makes a beautiful fountain by changing the jet. Price, each with stand, No. 1, \$2.50; No. 2, \$4.00.

— **Globe—Rotary,** each, \$1.00.

— **Merrill Rotary (Butterfly)**—Excellent, each, 35c.

Scythes.—Best English, 36 inches, riveted, each, \$1.50.

Scythe Stones Talacre.—Imported, fine, each, 25c.

— **Domestic.**—Each, 15c.

— **Sharpeners, Emery.**—Imported, each, 25c.

Seed Tryer.—Pocket, nickel plated, each, 75c.

Shears, Hedge.—Best imported goods, 8 inch, \$1.50; 9 inch, \$1.75; 10 inch, \$2.00.

— **Border**—Long handles, 9 inch, \$2.50; with wheel, \$3.00; with 2 wheels, \$3.50; 10 in., \$2.75.

— **Grass**—Two wheel, long handles, \$3.00.

— **Ladies'**—Light, useful for light work, \$1.50.

— **Wiss' Pruning**—This will be found a desirable as well as a durable shear.

No. 1 Price, each, \$2.00; by mail, prepaid, \$2.25

No. 2 " 1.90; " 2.15

No. 3 " 1.75; " 2.00.

— **French Secateurs**—(Pruning shear) strong, and of good steel, \$1.50; by mail, prepaid, \$1.65.

— **Buckeye Pruning.**—Whole length, 2 feet; weight, two and one-half pounds. Price, \$1.25.

— **Lee's Pruning.**—Improved spring, each, 7 inches long, \$1.00; 8 inches, \$1.50.

— **Grape (Picker).** Each, \$1.00.

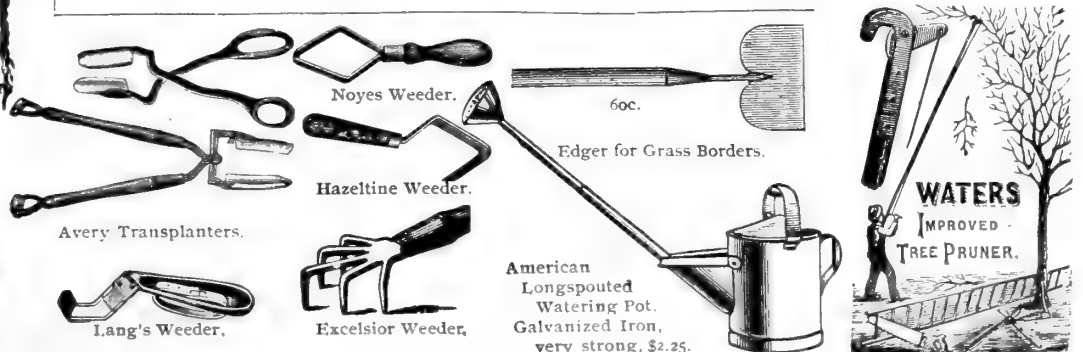
— **Rose Pruning.**—Imported, nickel plated, a very fine tool for ladies, 75c.

— **Sheep**—For trimming grass, each, \$1.00.

— **Vine Scissors.**—Nickel plated, each, 90c.

Shells, Sea.—White, for bordering flower beds, 100, \$2.00.

Sod Cutter, Richmond.—Cuts the sod of uniform width and thickness, in any length, so that it is particularly adapted to giving solidity to slopes in cuts and on embankments, working equally well on level or uneven surface, cutting both ways with the land and leaving no sod uncut. It is light of draft, easily managed, strong, neat and durable. One machine will cut from 30,000 to 40,000 square feet per day, thus doing the work of forty men. Directions with machines. Indispensable to all who cut sod in quantity, R. R. Men, Parks, Cemeteries, etc.; send for special circular. Price, hand machine, 8 in., \$13.50; horse machine, 12 in., \$27.00.



Noyes Weeder.

Hazeltine Weeder.

Avery Transplanters.

Lang's Weeder.

Excelsior Weeder.

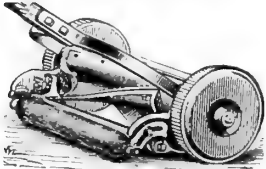
Edger for Grass Borders.

American Longspouted Watering Pot. Galvanized Iron, very strong, \$2.25.





Folding Plant Protector.



Philadelphia Lawn Mower.



Turf Edger.



Fan Trellis.



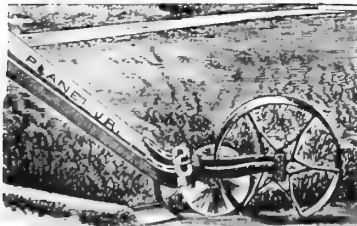
Hose Reel.

Bee Weeder.
Each, 15c.,
by mail.

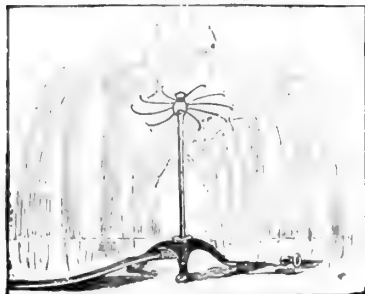
Flower Pot Cover.



Fumigator.



Planet, Jr., Turf Edger.



Lawn Sprinkler and Fountain.

Potato Fork.—Nine tined, each, \$2.25.

Spades.—Ames' Nursery, very strong, each, \$1.50.

Boys', each, 75c.

Syringes, Brass.—For Ladies, 14 inch, \$2.50.

No. A A Parlor, \$1.15.

5. Greenhouse syringe, \$5.50.

18 inch, with 3 different sprays, \$3.75.

No. 14. Syringe, brass for insecticide, \$2.25.

No. 15. nickel, " 2.75.

Improved Tin.—For applying liquid Insect Destroyer.

\$1.00.

New French Zinc.—With brass spray, \$1.25.

Thermometers.—Tin case, 8 in., each 25c; 6 for \$1.00.

Standard, wood case, each, 45c; 3 for \$1.25.

Imported German, all glass, for propagating beds and hot beds, each, \$1.00.

English Porcelain.—Very accurate, each, \$1.00.

Self-Registering.—With magnet to set it, 8 in., each,

\$2.75.

Thermometers cannot be sent by mail.

Thistle Cutter.—Sharp, narrow blade, with handle, for removing thistles or weeds from lawns, without disturbing the turf. Each, 75c.

Transplanter. The Avery.—Just the thing for gardeners. It marks out a new era for transplanting, doing it better and quicker, saving plants and time enough to many times pay its cost. Plants removed by it do not wilt. The tool is a good one, and every gardener should have it. Price, small single-hand size, each, 50c; large two-hand size, \$2.00.

Trellises.—This is by far the most ornamental and substantial trellis made, being especially adapted to out-door use, for high climbing shrubs and vines.

Fan Shape.—18 in., 15c; 24 in., 20c; 30 in., 25c; 3 1/2 ft. 21 in. wide, 40c; 4 ft. 27 in. wide, 50c; 5 ft. 32 in. wide, 60c; 6 ft. 38 in. wide, 70c; 7 ft. 42 in. wide, 80c.

Veranda.—18 in. wide, 5 ft., 55c; 6 ft., 65c; 7 ft., 75c; 8 ft., \$1.00; 9 ft., \$1.15; 12 ft., \$1.40.

Tree Pruner, Waters.—Length of pole, 4 feet, \$1.20; 6 feet, \$1.40; 8 feet, \$1.60; 10 feet, \$1.80. Extra knives, each, 25c. New pattern without pole, each, \$1.75.

Trowels, Vaughan's Steel.—ABSOLUTELY THE BEST TROWEL IN THE WORLD. It is of one solid piece of steel, and will outwear several of the ordinary sort. They have given general satisfaction all over the United States. Each, 50c; 3 for \$1.40; prepaid, each, 60c.

Humphrey's
Concave
Potato
Knife.



In these days of close competition, it is only by using improved implements and superior labor-saving methods that the agriculturist can make the farm pay. With the Concave Potato Knife, seed potatoes can be cut better, and \$2.00 to \$3.00 an acre saved in seed and time by its use. The blade is very thin and just the right shape to divide the potatoes into one, two or three eye pieces very rapidly without cracking the tuber or injuring the vitality of the germs as the punch cutters will do. Our illustration shows how the eyes are cut with the knife, making a compact piece with the eye in the center surrounded by the greatest possible amount of tuber. If the same eye had been cut by a straight knife, the piece would be thin, flat and broad, liable to dry up and decay before germinating. The knife

is no experiment. Hundreds of potato growers and seedsmen have indorsed them the past five years. Seventeen Agricultural Experiment Stations have them in use. We manufacture and sell this tool in the United States and Canada, and believe it the best article of the kind in existence for every potato planter, securing as it does, more of the body of the tuber with every eye cut than any other method of cutting, there being no waste whatever. We sell the knife on its merits, and will refund the money to any one who is not satisfied. A circular is put up in each box with the knife. If left-handed, please mention it when ordering. Price postpaid, 30c. each. Six for \$1.50. Twelve for \$2.85.

Trowels, Fern.—With leather sheath, 85c; prepaid, 90c.

Cleves' Angle, 25c.

Transplanting.—50c; prepaid, 60c.

Ordinary Garden Trowels.—6 in., each, 15c; prepaid 25c; half dozen, not prepaid, 75c; 7 in., each, 20c; prepaid, 30c; half dozen, not prepaid, \$1.00; 8 in., each, 25c; prepaid, 35c; half dozen, not prepaid, \$1.20.

Imported English Steel.—Light and very durable, 6 in., each, 25c; 7 in., each, 30c. By mail add 10c.

Turf Edger, Planet Jr., New.—No doubt the best of its kind. As useful in its way as the lawn mower and indispensable for neat walks. The hoe does very satisfactory work in the vegetable garden. Price, \$3.40.

Turf Edger.—For trimming walks, with handle, 60c.

Imported English.—Extra fine steel, no handle, each

\$1.10.

Square Edge.—See cut, each, 65c.

Watering Pots, Improved Paris Zinc.—These are made of best material and are very useful and durable.

No. 0, holding 3/4 quarts, each, \$1.10.

" 1, " 5 " " 1.25.

" 2, " 7 " " 1.50.

" 3, " 10 " " 1.75.

" 4, " 12 " " 2.25.

Weeders, Noyes.—An old standard article, in use for many years, each, 25c; postpaid, 30c; 6 for \$1.50.

Hazeltine.—Of the best solid steel, good size, and durable; in very general use all over the country. Each, 20c; postpaid, 25c; dozen \$2.10.

Excelsior.—A very useful little tool for weeding seed beds, stirring the ground, etc. Each, 15c; postpaid, 20c; 6 for 75c; dozen, \$1.40.

Lang's Hand.—One of the best of this class, allowing use of hand while working. Each, 20c; postpaid, 25c; doz., \$2.25.

Weeder, Gem Hand.—A very useful tool. Price each, 25c; postpaid, 30c.

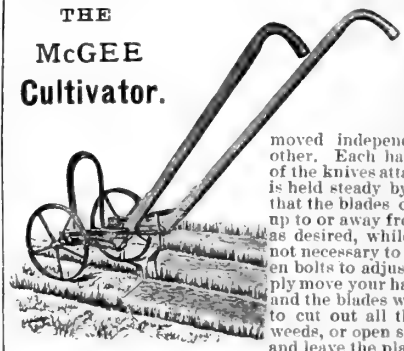
Weeding Fork, Hand.—Imported, each, 50c; postpaid, 60c.

Weeding Spoon, each 40c.

Wheelbarrow.—Best for garden work, \$4.00.

Smith's Device for Preserving Seed Corn.—Patented, consists of a spiral wire to be screwed in the end of the ear and attached by the hook to a perpendicular wire with hooks or loops on the end; suspended, is inaccessible to mice and permits a free circulation of air. Six hundred screws (six boxes) with twelve hanging wires sent, postpaid, for \$2.50. 1 box, 50c.

THE
McGEE
Cultivator.



This can be done with such ease, and so accurately after becoming used to the machine, that a man will work it as fast as he can walk and cut the weeds closer to the plants than can be done by other machines. Price, complete with two sets of blades, \$4.50.

Lightning Potato Eye Cutter does the work very fast. It is gauged to cut enough flesh with each eye to strengthen and vitalize it and does the work in a scientific manner. Ea. 25c.

Prices on Garden Tools. While we are not in business to give away goods, we do claim to buy largely and cheaply and are disposed to meet the sales of any reliable houses. If you see lower rates than ours, name the source and if possible we will meet the prices.



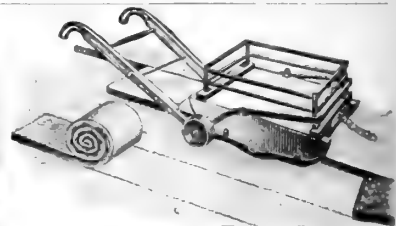
Vaughan's 3 ply "Red H" Rubber Hose.



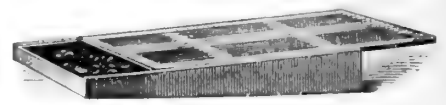
Cleves' Trowel, each 25c.



French Zinc Syringe.

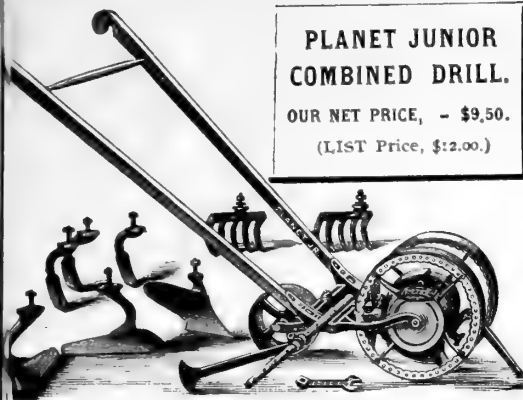


Richmond Sod Cutter.



Patent Plant Bed Cloth.

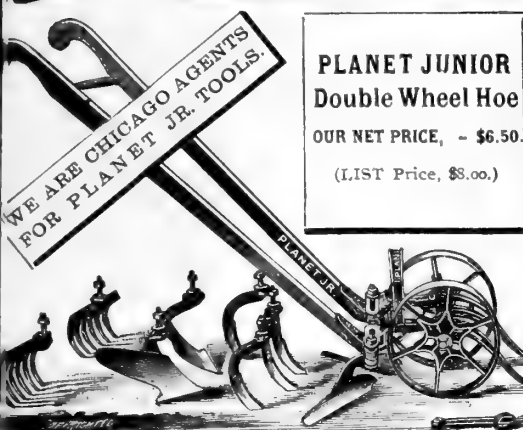
THE PLANET JR. GARDEN TOOLS—1891.



PLANET JUNIOR COMBINED DRILL.

OUR NET PRICE, - \$9.50.
(LIST Price, \$12.00.)

The PLANET JR. GOODS are widely and favorably known everywhere, the Combined Planet Drill being the most popular combined machine in the market. The entire line is well made, handsomely finished, and their Cultivators are second in popularity only to the "GEM." Chicago is a great distributing centre for these as well as other tools, and we have supplied the Planet Goods to thousands of gardens in the West. We have now in stock, of 1890 pattern, the largest quantity of these Tools ever kept in the U.S., and have marked our prices accordingly.



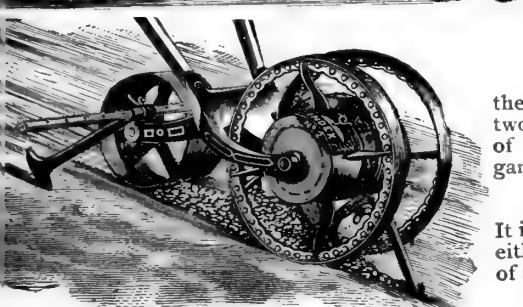
PLANET JUNIOR Double Wheel Hoe

OUR NET PRICE, - \$6.50.
(LIST Price, \$8.00.)

PLANET JUNIOR COMBINED SEED DRILL.—It is, without doubt, the very best seed machine made for the two purposes, and does both well. The cultivating attachments furnished with each drill are a plow, a pair of protecting curved point hoes, a set of three cultivator teeth, and a pair of rakes. All the blades are steel, hardened in oil, tempered and polished. A wrench accompanies each machine, and full directions for use. By removing the roller and using the hilling hoes, seed can be dropped and covered deeply. It can be seen that it is an excellent sower; it is a first class double wheel hoe shuffle hoe; it opens furrows for corn, beans and potatoes, and covers them; it is an admirable wheel cultivator. Weight, packed, forty pounds. Price, \$9.50.

PLANET JUNIOR DOUBLE WHEEL HOE, CULTIVATOR, RAKE AND PLOW COMBINED.—Has the invaluable feature of tending both sides of the row at once. The wheels can be set four, seven or ten inches apart. It has a pair of hoes, a pair of plows, two pairs of cultivator teeth, a pair of rakes and a pair of leaf lifters, making it capable of every variety of gardeners' work. Greatly improved for this season. Price, \$6.50.

THE PLANET JUNIOR PLAIN DOUBLE WHEEL HOE.—To meet a demand from onion growers and others who want a hoe only, we offer the Double Wheel Hoe just described, supplied simply with one pair of long curved point hoes. This tool has the same adjustment of hoes and wheel as the above and any or all of the other attachments may be added to this at any time, and will be found to fit. Our net price. \$4.50.



PLANET JUNIOR, NO. 2 DRILL.

PLANET JUNIOR NO. 2 DRILL.—It has the following important advantages; an adjustable opening plow directly between the carrying wheels, the only position and plan which insure opening and covering at a regular depth. It is shown in the engraving at work. A spring back reservoir which can be accurately and instantly adjusted, a hair's breadth at a time to every kind of seed, which it always sows with regularity, whether there is much or little in the hopper. Weight, packed, forty pounds. Price, \$7.50.

PLANET JUNIOR SINGLE WHEEL HOE.—Is considerably lighter than the Double, and is supplied with one pair of hoes, three reversible cultivator teeth, two narrow and one broad, a large garden plow, and a pair of rakes. It is capable of a great variety of combinations and is admirably adapted to the use of small gardens. Price, \$5.00.

THE FIREFLY SINGLE WHEEL HOE CULTIVATOR AND PLOW COMBINED.—It is light, strong and adjustable to quite a variety of work. It has two hoes which work either to or from the row, three cultivator teeth, and one garden plow, a single handle of stiff iron. Though like the former Firefly, it has the additional hoes and teeth. Price, \$3.90.

THE FIREFLY WHEEL GARDEN PLOW.—This little plow has been found very useful for gardeners and private families, in opening furrows, covering seed in drills and hilling growing plants. We have a large demand for them. Weight, 10 lbs. Price; \$2.15.



THE "PLANET JR." ALL STEEL HORSE HOE AND CULTIVATOR.

1891 "PLANET JR." ALL STEEL HORSE HOE AND CULTIVATOR COMBINED,

WITH WHEEL.—This excellent tool is made entirely of iron and steel, except the handles; has a patent lever expanding frame which can be closed to five inches or opened to twenty-four; has a side adjustment for the handles, by which they may be set from one side to another by loosening a single bolt; has a lever wheel by which it may be changed to any depth in an instant; and is provided with such a variety of adjustable teeth as enables it to do all kinds of one-horse cultivation. The front two teeth are three inches wide, and of a form as is best adapted to enter the soil, cut off the roots of growing weeds, and turn them upside down thus preparing for the easy working of the rear blades. The cultivator teeth can be set to work deep or shallow, as desired. The patent side steels are five inches wide and by means of the patent side standards can be turned at any angle desired, or completely reversed. This feature is found on the "Planet Jr." Horse Hoe alone. The rear steel is seven inches wide, and designed to fill in the furrows made by the side steels, leaving a finely shaped bed around the plants. The tool is also furnished with three extra cultivator steels which can be placed on the three rear standards when desired, thus making it a plain cultivator. All the standards now used on the "Planet Jr." Horse Hoe are made from heavy sheet steel, struck up into the proper shape by special machinery. These Hollow Steel Standards are far superior to anything ever before offered to the public, and are a distinguishing feature of the improved "Planet Jr." Horse Hoe.

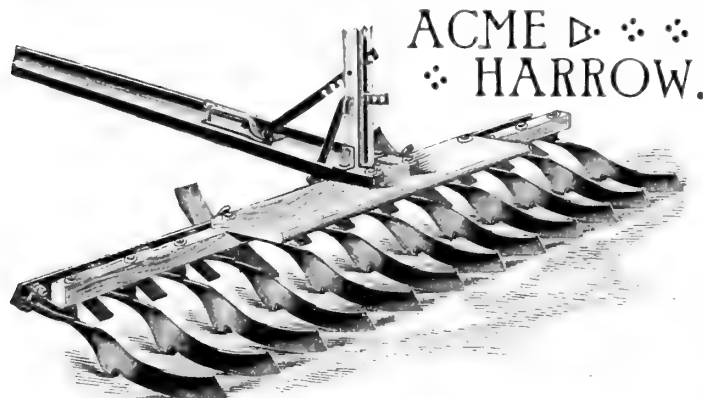
Price, including Wheel, delivered at Depot or Express Office, \$8.25; without Wheel, \$7.75. Covering roller extra \$2. Extra set of 5 cultivator steels, \$1. Lever attachment alone, \$1.75. Send stamp for catalogue, for full list of all extras and all Planet Jr. goods.

THE "PLANET JR." ELEVEN TOOTH HARROW, Cultivator and Pulverizer Combined.

A very satisfactory new tool which will prove valuable for fine cultivation, deep or shallow. It has also the new lever wheel and lever attachment. It is valuable as a Harrow and Pulverizer. Price, plain, without Pulverizer, \$7.25; without Pulverizer or wheel, \$5.50; complete, \$9.25.

IT IS WORTHY YOUR ATTENTION

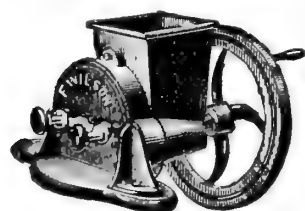
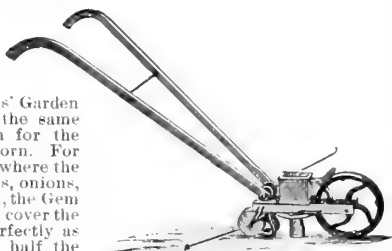
That by the location of our warehouse, in the most economical central business section of Chicago, we secure the very best freight rates in and out, from or to all points. It insures us lowest cost on our goods, and lowest rates and quickest time to you. When you consider this is true of all Bulk Seeds, Potato Union Sets, Corn, etc., and remember that our Greenhouses and Trial Grounds are economically located where room is cheap in the country, our facilities for filling all your orders at the least total expense is apparent, and our 100,000 customers have nearly all proved it for themselves and continue with us each year in larger per centage than with most other houses in this trade.



ACME HARROW.

A. H. MATTHEWS' GEM DRILL.

This is, in most respects, but a smaller pattern of the A. H. Matthews' Garden Drill, and will sow all seeds with the same accuracy; but is not large enough for the coarser seeds, like beans, peas, and corn. For the home garden, and all other uses where the finer seeds are sown, such as turnips, onions, carrots, parsnips, beets, mangels, etc., the Gem Drill will make the furrow, drop and cover the seed, and mark the next row as perfectly as any Drill made, and at only about half the price. It is thoroughly made in every way. The Drill crated, including handles, weighs 30 pounds. It is warranted to give satisfaction, and will last for several years. Price, \$5.00.



WILSON'S BONE MILLS.

We are Chicago Agents for these Celebrated Mills, and sell hundreds every year, with very general satisfaction. Mr. Wilson speaks of them as follows: "Used to pound Shells and Bones for my Poultry in a mortar. That way was hard work, and it took a great deal of my time—TIME IS MONEY. This led me to devise some means by which TIME COULD BE SAVED AND LABOR MADE EASY. I now claim that both can be accomplished by using one of these HAND MILLS. They are a COMPLETE SUCCESS for crushing oyster shells, grinding bone meal, and all kinds of grain, coarse or fine, for Family or Stock use. Also grinds corn or cob. A peck of shells can be crushed in fifteen minutes. They are made in the very best manner. They can be adjusted for grinding either coarse or fine. Whole oyster shells can be put in the mill as well as bones of the same size."

No. 1, without iron legs, Weight 35 lbs. (3 for \$13.00, \$5.00)
No. 1, with iron legs, weight 65 lbs., \$7.00.
No. 0, Family Grist Mill (3 for \$13.00, \$5.00).
Green Bone Mill, No. 1, hand-size, for grinding bones right from the butcher, \$16.00.

Write for Illustrated Descriptive Circular of all the different sizes of Bone Mills.

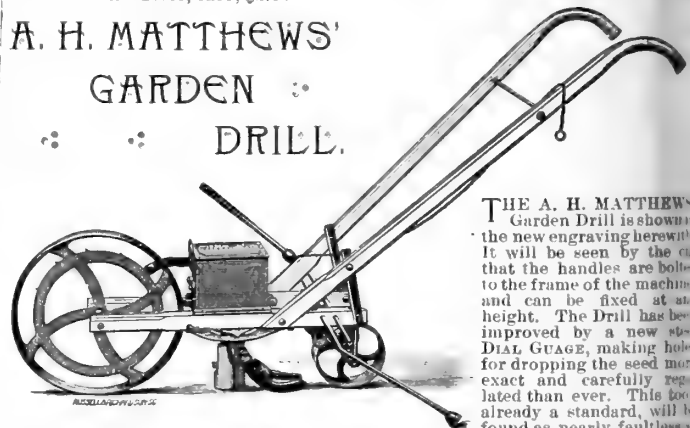
This implement has been subjected to the most thorough practical tests—thousands having been sold, and they are now in use, not only in every agricultural county in the United States, but also in nearly every civilized country in the world. It is adapted to many different uses, and is believed to be the only Harrow that does the work thoroughly in all kinds of ground, leaving the soil in light, loose condition, ready to receive the seed. In its operation it subjects the soil to the action of a Steel Crusher and Leveler, and to the Cutting, Lifting, Turning, process of double rows of CAST STEEL COULTERS, the peculiar shape and arrangement of which give immense cutting power. The three operations—crushing lumps, leveling off the ground, and thoroughly pulverizing the soil—are performed at one time. The entire absence of Spike or Spring Teeth avoids pulling up rubbish. It is especially adapted to inverted sod and hard clay, where other Harrows utterly fail; works perfectly on light soil, and is the only Harrow or Cultivator that cuts over the entire surface of the ground.

No. 14.—New style for two horses, works 7½ feet wide, weighs only 130 pounds. Price, complete, with riding platform and runners, which are equivalent to sulky on cars at Chicago, only \$18.00. The cheapest Riding Harrow in the world.

ACME ASPARAGUS BUNCHER.

The most satisfactory and practical Buncher made; the metal part entirely made of brass and iron, mounted on hardwood base. Bunches are made uniform in diameter and length, and tip ends kept even. Bunches can be made long or short as required. Diameter of the size we offer for Chicago market, 3 inches at tip and 3½ inches at butt. Price, each, \$2.50.

A. H. MATTHEWS' GARDEN DRILL.



THE A. H. MATTHEWS' Garden Drill is shown in the new engraving herewith. It will be seen by the cut that the handles are bolted to the frame of the machine, and can be fixed at any height. The Drill has been improved by a new SHUT-OFF GAUGE, making holes for dropping the seed more exact and carefully regulated than ever. This too already a standard, will be found as nearly faultless as a Drill can be made. The cardinal principles in its construction are used in nearly every Drill now in the market. Especial features of this Drill are: Horizontal Indicator, with the name of each in plain sight, and a perforated seed dial, with pointers showing holes to be used for each kind of seed. Wrought Iron Markers, of one piece, easily adjusted and arranged with sliding weight for marking, and can be operated entirely by the foot. New Shut-Off Attachment—This connects a small slide beneath the hopper by a chain and ring along the handle to the hand of the operator; by this the dropping of seed can be instantly stopped. By dropping the ring the seed spout is again opened. Adjustable Handles to suit a boy or man. The Dial can also be turned to shut off seed entirely. Price, \$7.75.

NEW SHOVEL PLOW. (COMBINED WITH ONE-HORSE PLOW.) This Plow is made with a standard, to which the plow-share may be bolted when the winged shovel plow is removed, making the tool a one-horse plow for opening furrows, or any garden work required, and a first-class shovel plow, which is almost indispensable to every gardener for potatoes, celery, etc. Price, \$7.50.

"GARDENER'S FAVORITE" CULTIVATOR FOR 1891.

ALL STEEL FRAME. We have had manufactured for our trade each season, by the original makers of the Iron Age "GARDENER'S FAVORITE." The frame, legs, teeth, bolts, wheels and handles are made of the very best materials, and very handsomely finished. It may not be generally known, but it is a fact that the reputation of these Iron Age goods has been so high that many inferior imitations have been made, therefore we have copyrighted our trade mark, "Gardener's Favorite." Last year we added a valuable feature, the LEVER ADJUSTMENT, by which the cut of the tool can be readily widened or narrowed even while in motion. The LEVER, about 2½ feet long, stands erect between the handles, where it is most easily operated. ALL STYLES of our "GARDENER'S FAVORITE" now furnished with this lever.

N. B.—Order by number and state whether you want Diamond Teeth. Figure 2, or Round Teeth. Figure 1.

"GARDENER'S FAVORITE."

STYLE No. 1.—Plain: five teeth, with either style teeth, Fig. 1 or Fig. 2, \$4.25.
STYLE No. 2.—Five teeth, either style and wheel, \$4.75.
STYLE No. 3.—Five teeth, horse hoe attachments, rear plow and wheel, \$6.00.
STYLE No. 4.—Five teeth, pair h. hoe attach., rear plow, wheel, leveler, weeder—all parts for \$7.00.

SEPARATE PARTS.—Each as follows: Pair Horse Hoe Attachments, like Fig. 4, with standards, \$2.00. Wheel, \$1.00. Weeder, Fig. 5, \$1.25. Leveler, not shown in cut, \$1.25. Rear Plow, Fig. 3, 30c. Cultivator Teeth, without standards, pattern No. 1 or No. 2, 35c.

"IRON AGE" Cultivator, regular style and make, plain, 5 teeth. Each, \$4.00.

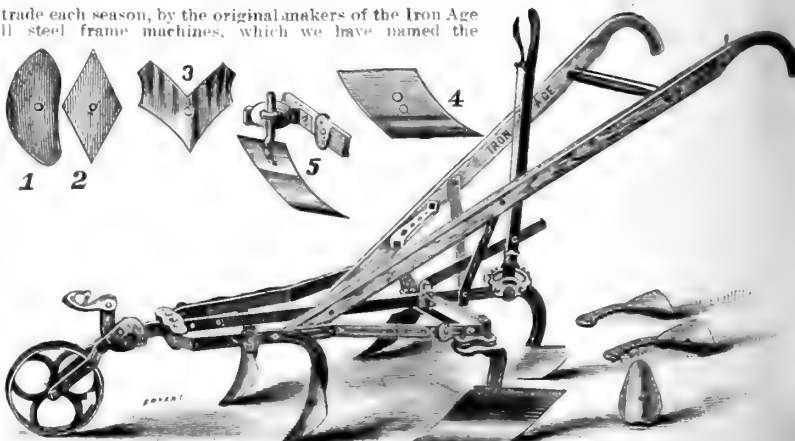
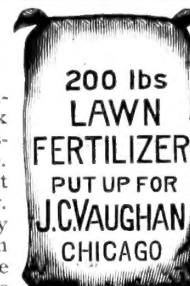
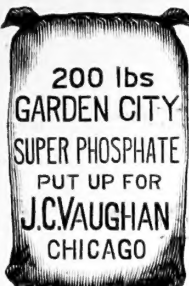
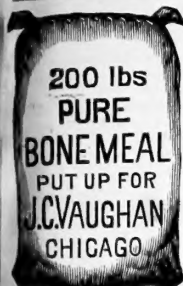


Fig. 1, Rounded Teeth; Fig. 2, Diamond Teeth; Fig. 3, Rear Plow; Fig. 4, Side Hoe; Fig. 5, Weeder; Fig. 6, Wheel; Fig. 7, Horse Hoe ready for operation.

Combine your orders and save freight.

• FERTILIZERS. •



Commercial Fertilizers are sure to come into more general use in the West as fast as they are tried. Their quick and direct action commend them to the Gardener. A customer who once buys almost invariably continues its use. The enormous quantities sold in the East give the best evidence of its utility and value to the Gardener and Farmer. Chicago is the largest manufacturing place in the country for these manures, obtaining the bones from the Western plains and from local slaughter houses. We can make the lowest prices. The quantity to use per acre depends on the

crop to be cultivated and condition of soil. We prefer not to put up any sizes not here offered, as it requires much valuable time during our busiest season, but we will put up to order assorted lots of not less than six kinds for experiments at special rates. Send a list for prices.

PURE BONE MEAL.—ANALYSIS: Ammonia, 3 to 4 per cent.; Bone Phosphate, 45 to 55 per cent. Every bag is guaranteed pure Bone. It is made from the bone gathered from the plains and farms without being steamed or baked. Price, per bag of 200 lbs., \$4.50; five bags or over, \$4.00. Harrow or drill in, using 200 to 300 lbs. per acre at time of seeding. In small lots by express, not prepaid, 5 lbs., 30c.; 10 lbs., 50c.; 25 lbs., \$1.00; 50 lbs., \$1.65; 100 lbs., \$2.75.

GARDEN VEGETABLE COMPOUND.—ANALYSIS: Ammonia 3 to 4 per cent.; available Phos. Acid, 8 to 9 per cent.; Sulph. Potash, 2 to 3 per cent. Harrow it in, using 300 lbs. per acre. The best Fertilizer for vegetables is one that is soluble and furnishes the food quickly, and only such nourishment as will be absorbed in vine, stalk, leaf and large fruitage. These elements are united in perfect proportions in the **Garden Vegetable Compound**. It is put up in bags, odorless, clean to handle, and reasonable in price. Its application is simple. Directions accompany each package. Price, per bag, 50 lbs., \$1.65; 100 lbs., \$2.75; 200 lbs., \$5.00.

GARDEN CITY SUPER-PHOSPHATE.—ANALYSIS: Ammonia 2 to 3 per cent.; Bone Phosphate, 24 per cent.; Available Phos. Acid, 8 to 9 per cent.; Sulph. Potash, 1 to 2 per cent. It stands without a rival as the largest crop producer at the smallest outlay. It is a complete manure. You can buy Phosphates that cost \$5 to \$10 per ton more, but you can't buy one that will give larger increase of crops. Every bag is up to the standard and always equal in strength and mechanical condition to that heretofore sold. Price, per bag of 200 lbs., \$3.50; five bags, or over, per bag, \$3.20. Harrow or drill in, using 200 to 300 lbs. per acre. If applied with drill, 200 lbs. will give excellent results, but if applied broadcast, use 300 lbs. per acre.

LAWN FERTILIZER.—ANALYSIS: Ammonia, 3 to 4 per cent.; Avail. Phos. Acid, 8 to 9 per cent.; Sulph. Potash, 3 to 4 per cent. It can be applied either in the spring, summer or fall as a top dressing at the rate of one pound to 16 square feet. Stable dressing for lawns is objectionable in appearance, odor, weed seed and cost. Our CHICAGO LAWN FERTILIZER overcomes all these, and supplies the soil with requisite food for a uniform and luxuriant growth of grass. Price, 10 lbs., 50c.; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00.

GUANO, PERUVIAN, GUARANTEED.—A standard fertilizer throughout the entire country and in almost universal use. Our sale of this is very large. Price, per 5 lbs, 40c.; 10 lbs., 70c.; 50 lbs., \$2.25; 100 lbs., \$4.25; 200 lbs., \$8.00; 1,000 lbs., \$36.00.

KAINIT, GERMAN POTASH SALT.—ANALYSIS: Sulphate of Potash, 24.80 per cent.; Sulph. of Magnesia, 14.30 per cent.; Chloride Magnesia 12.52 per cent.; Common salt, 32 per cent.; Moisture, 14.36 per cent.; insoluble matter, 1.92 per cent. A comparatively new fertilizer in this country. Price, per bag of 200 lbs., \$2.85.

For FEAT. LEAF MOLD.—See list of Tools and Garden supplies.



Rust's Egg Producer.—Claimed to be the best egg producer in the market. On each package are full directions and important hints about getting eggs in winter. Price, 1 lb. package, 25c.; 2½ lb. package, 60c.; 6 lb. box, \$1.00. If to go by mail, add 16c. per lb. for postage.

Ground Oyster Shells.—Of great value to all poultry; we ship these in large lots and can quote lowest rates for large or small lots. 25 lbs., 75c.; 50 lbs., \$1.15; 100 lbs., \$1.65; bbl. of 275 lbs., \$3.50; 3 bbls. for \$9.50.

Coarse Ground Bone.—Especially prepared for chickens, etc. Sometimes used for cattle. Price, 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50; 200 lbs., \$4.75. No other sizes put up.

The Calf Feeder.—This is designed for feeding milk to young calves in a natural way, and is for the calf what the nursing bottle is to a babe. The cut describes it better than type can. It holds seven quarts, and is sent with cleats, screws and hook, all ready for use. Per express, with one extra nipple, \$2.50; per mail, \$3.00. Duplicate teats mailed for 25c.

Advance Fertilizer Drill.—The increased use of commercial Fertilizers has brought with it a demand for improved appliances for distributing them. The "ADVANCE," while not new, has such improvements over any former tools of the kind that it may well be entitled ADVANCE. All its parts are most thoroughly made, of steel and of galvanized wrought iron, making it light and durable, while the wood-work is the best, and handsomely finished. Price \$9.00.

Buhlman's Wheel Hoe.—One of the best garden weedeers. It can be set from seven to sixteen inches in width. Price, boxed, \$4.00. Weight, thirty-five pounds.

FLORISTS' PLANT FOOD.—ANALYSIS: Ammonia, 3 to 4 per cent.; Available Phos. Acid, 8 to 9 per cent.; Sulph. Potash, 3 to 4 per cent. This article has been made for Florists, who desire to obtain an inexpensive, effective, and odorless preparation that will act quickly on plants, and furnish food for flower and leaf. Put up in bags at the following prices: 5 lbs., 50c.; 10 lbs., \$1.00; 25 lbs., \$1.75; 50 lbs., \$2.50; 100 lbs., \$4.00.

BOWKER'S PLANT FOOD.—In one pound packages, containing a pamphlet on the treatment of house plants, with directions for applying the fertilizer. Perfectly odorless and clean. Per package, 25c.; (postpaid, 40c.); per doz., \$2.50.

MAPES' POTATO MANURE.—Having repeated inquiries for MAPES' POTATO MANURE, we have decided to offer it in our catalogue. The analysis is as follows: Ammonia, 4½ to 5 per cent.; Phosphoric Acid, 8 to 10 per cent.; Actual Potash, 6 to 8 per cent. Price, per bag of 200 lbs., \$5.25; per 1,000 lbs., \$24.50; 2,000 lbs., \$48.00; 5,000 lbs., \$115.00; on cars at Chicago.

TRUCK MANURE.—A high grade fertilizer made especially for vegetable gardening, probably the best for the purpose now on the market. ANALYSIS: Ammonia, 6 to 8 per cent.; Phosphoric Acid, 7 to 9 per cent.; Actual Potash, 6 to 8 per cent. Price, 25 lbs., \$1.25; 50 lbs., \$2.00; 100 lbs., \$3.25; 200 lbs., \$6.00; 500 lbs., \$13.00; 1,000 lbs., \$25.00; 2,000 lbs., \$50.00.

CELERY GROWER.—A new carefully prepared manure especially for our trade among the Celery growers about Chicago and Michigan. It is chemically suited to this crop, which demands high manuring. ANALYSIS: Ammonia, 3 to 4 per cent.; Available Phosphoric Acid, 7 to 9 per cent.; Sulphate of Potash, 2 to 3 per cent. Price, 50 lbs., \$1.25; 100 lbs., \$2.00; 200 lbs., \$3.50.

NITRATE OF SODA.—Should be sown broadcast, and it is very important to sow it EVENLY. Two or three pounds on a square rod will be beneficial. Price, 25 lbs., \$1.25; 50 lbs., \$2.00; 100 lbs., \$3.35; 200 lbs., \$6.50.

LAND PLASTER OR GYPSUM.—Used by many potato growers. This is excellent to mix with Paris Green, at the rate of 100 lbs. of plaster to 1 lb. of Paris Green. Per bbl. of about 350 lbs., on cars, \$3.25; 5 barrels for \$10.00; 10 barrels for \$18.50 on cars at Chicago.

HORN SHAVINGS.—Especially adapted to certain greenhouse plants. 5 lbs., 40c.; 10 lbs., 70c.; 25 lbs., \$1.25; 100 lbs., \$3.50.

METHODS OF MAKING MANURES.—Bommer. Price, 25c.

TALKS ON MANURES.—By Joseph Harris, M. S. 366 pages, contains ample information on Manures and Fertilizers, their use, utility, effectiveness, etc. Price, bound in cloth, \$1.75.

FERTILIZERS, A NEW EDITION, where to get, formulas for various crops, how to apply, by J. J. H. Gregory, paper. Price, 40c.



Pierce's Improved Cahoon Broadcast Seed Sower.—A hand-machine very largely used. The quantity to be sown is easily regulated. It distributes EVENLY four to six acres per hour. It will scatter the following distances: Wheat, Barley, Rye, 25 feet; Clover and Timothy, 18 to 20 feet; Orchard Grass and like seed, 12 to 15 feet. The bag and hopper hold about 22 quarts. Weight 5½ pounds. Price, \$4.00; three at one time for \$10.00; six in one order for \$19.00.

Miner's Gold Medal Subsoil Plow is the best in the market.—The advantages of such a plow are too well known to refer to. One horse, each, \$6.50; Two-horse, \$9.50; Wheel, extra, \$1.00.

Daisy Cabbage Plow.—A combination cabbage and furrowing plow; having three mouldboards, the two smaller ones to be used in cultivating all root crops, and the large mouldboard can be used in plowing the ground or furrowing. It is a very great favorite among the Long Island gardeners, and is really indispensable to economical gardening. Price, complete, with an extra share and three mouldboards, \$7.00.

Comstock's Garden Seeder.—It is specially adapted to sowing onion seeds at the rate of four, five or six pounds to the acre. It has a click and slide motion, with a circular plate, perforated with ten graduated holes, attached to the slide and agitator. This seed sower is light enough to be lifted around easily at the ends of the rows in sowing. It is a good DRILL, and a cheap one. Weight, boxed, eighteen pounds. Price, only \$6.50; with the Gem cultivator, \$11.00; with Gem with double wheel, \$12.50.

COMBINE YOUR ORDERS, THEREBY SAVING TIME, EXPENSE AND FREIGHT CHARGES.

WE ARE LARGE DEALERS IN FERTILIZERS. WRITE FOR LATEST QUOTATIONS ON QUANTITIES.

THE BLAKELY PRINTING COMPANY, CHICAGO.

VEGETABLE SEED.

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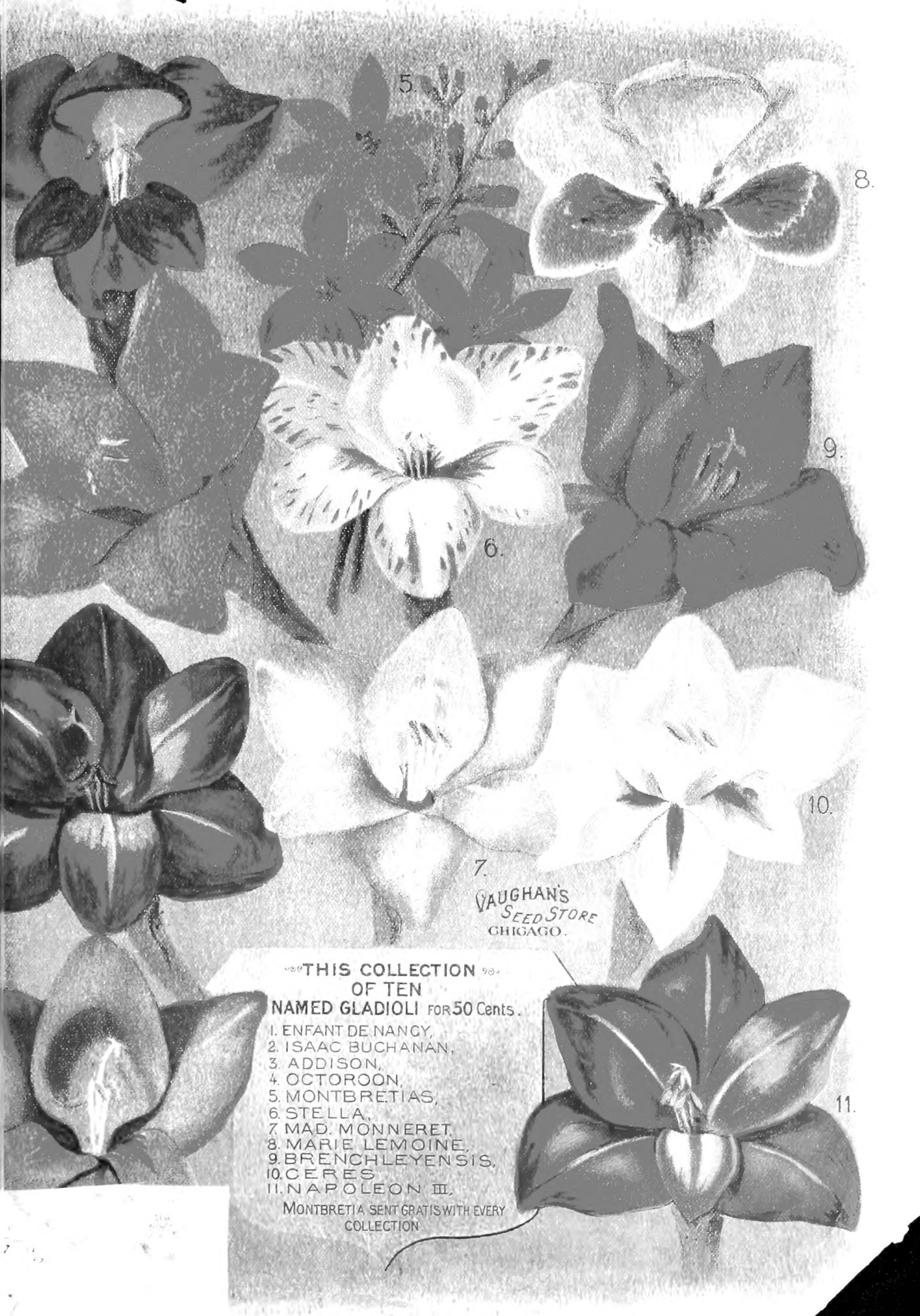
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